

SUPPORTING INFORMATION

Discovery of First-in-Class Peptidomimetic Neurolysin Activators Possessing Enhanced Brain Penetration and Stability

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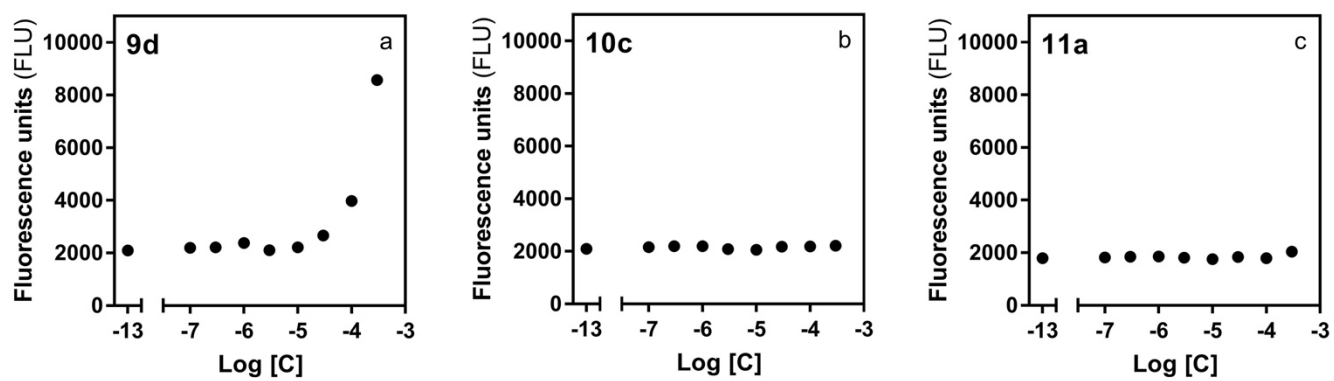
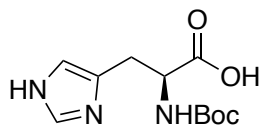
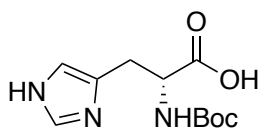


Figure S1. Interference of compounds, a) **9d**, b) **10c**, c) **11a** on the fluorescence intensity of the NIn hydrolytic product QFS used in the assay, a) . Compounds **10c** and **11a** provide no interference while compound **9d** interference was adjusted for in assay data analysis.

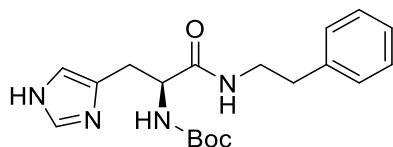
Characterization Data of Key Intermediates and Starting Material



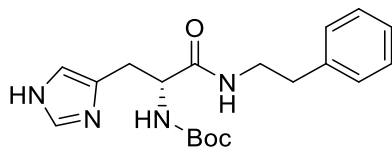
***N*-Boc-*L*-Histidine:** $[\alpha]_D^{24} +24.46$ (c 0.45, MeOH).



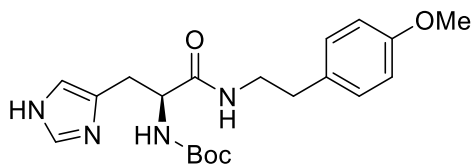
***N*-Boc-*D*-Histidine:** $[\alpha]_D^{24} -24.57$ (c 0.45, MeOH).



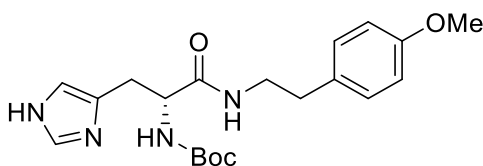
***tert*-butyl (*S*)-(3-(1*H*-imidazol-4-yl)-1-oxo-1-(phenethylamino)propan-2-yl)carbamate:** Following general synthetic procedure A the title compound was synthesized as a white solid (84%). $R_f = 0.41$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.73-2.86 (m, 4H), 3.44-3.46 (m, 2H), 4.20-4.28 (m, 1H), 6.84 (s, 1H), 7.19-7.29 (m, 5H), 7.61 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.2, 29.4, 35.1, 40.5, 54.8, 79.2, 117.0, 125.9, 128.1, 128.4, 133.2, 134.7, 139.0, 156.1, 172.8.



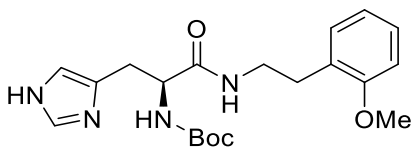
***tert*-butyl (*R*)-(3-(1*H*-imidazol-4-yl)-1-oxo-1-(phenethylamino)propan-2-yl)carbamate:** Following general synthetic procedure A the title compound was synthesized as a white solid (69%). $R_f = 0.42$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.74-2.77 (m, 2H), 2.80-2.85 (m, 1H), 2.97-3.02 (m, 1H), 3.38-3.46 (m, 2H), 4.25 (t, $J = 6.6$ Hz, 1H), 6.84 (s, 1H), 7.18-7.30 (m, 5H), 7.61 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.25, 29.50, 35.09, 40.58, 54.87, 79.24, 116.72, 125.95, 128.12, 128.41, 134.96, 139.01, 172.86.



tert-butyl (S)-3-(1H-imidazol-4-yl)-1-((4-methoxyphenethyl)amino)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (56 %). $R_f = 0.35$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.69 (t, $J = 7.2$ Hz, 2H), 2.80-2.86 (m, 1H), 2.98-3.03 (m, 1H), 3.34-3.40 (m, 2H), 3.76 (s, 3H), 4.25 (t, $J = 6.8$ Hz, 1H), 6.84 (d, $J = 8.4$ Hz, 3H), 7.11 (d, $J = 8.4$ Hz, 2H), 7.63 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.25, 29.41, 34.19, 40.77, 54.24, 54.84, 79.27, 113.55, 116.99, 129.35, 130.93, 133.20, 134.73, 156.15, 158.36, 172.74.

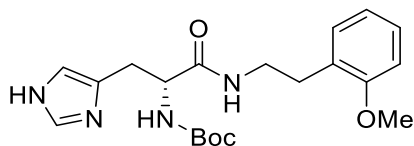


tert-butyl (R)-3-(1H-imidazol-4-yl)-1-((4-methoxyphenethyl)amino)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (68%). $R_f = 0.43$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.69 (t, $J = 7.22$ Hz, 2H), 2.83 (dd, $J = 14.39, 8.93$ Hz, 1H), 3.00 (dd, $J = 14.81, 5.34$ Hz, 1H), 3.35-3.44 (m, 2H), 3.77 (s, 3H), 4.25 (t, $J = 6.59$ Hz, 1H), 6.85 (d, $J = 8.42$ Hz, 3H), 7.11 (d, $J = 8.37$ Hz, 2H), 7.62 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.28, 29.45, 34.21, 40.78, 54.26, 54.86, 79.27, 113.56, 117.02, 129.36, 130.93, 133.20, 133.21, 134.76, 156.15, 158.35, 172.75.



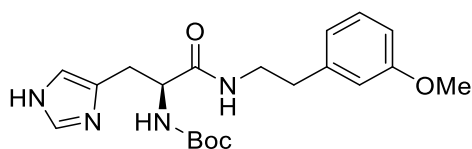
tert-butyl (S)-3-(1H-imidazol-4-yl)-1-((2-methoxyphenethyl)amino)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (70%). $R_f = 0.38$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.80 (dt,

$J = 23.29, 7.24$ Hz, 3H), 3.00 (dd, $J = 14.72, 5.21$ Hz, 1H), 3.35 - 3.46 (m, 2H), 3.84 (s, 3H), 4.25 (t, $J = 6.73$ Hz, 1H), 6.83 - 6.88 (m, 2H), 6.93 (d, $J = 8.11$ Hz, 1H), 7.10 (d, $J = 7.16$ Hz, 1H), 7.20 (td, $J = 7.82, 1.39$ Hz, 1H), 7.60 (s, 1H). ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 25.73, 27.96, 28.16, 37.79, 52.87, 53.33, 77.72, 108.56, 115.45, 118.63, 125.46, 125.96, 128.56, 133.19, 156.05, 171.16.



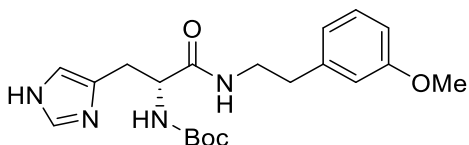
tert-butyl **(R)-3-(1H-imidazol-4-yl)-1-((2-methoxyphenethyl)amino)-1-oxopropan-2-yl)carbamate:** Following general synthetic procedure A the title compound was synthesized as a white solid (72%). $R_f = 0.38$ (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 2.76-2.85

(m, 3H), 3.00 (dd, $J = 14.70, 5.15$ Hz, 1H), 3.35 - 3.44 (m, 2H), 3.85 (s, 3H), 4.25 (t, $J = 6.59$ Hz, 1H), 6.86 (dd, $J = 13.33, 5.19$ Hz, 2H), 6.93 (d, $J = 8.14$ Hz, 1H), 7.10 (d, $J = 7.19$ Hz, 1H), 7.20 (td, $J = 7.82, 1.46$ Hz, 1H), 7.62 (s, 1H). ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 27.27, 29.47, 29.70, 39.35, 54.42, 54.86, 79.28, 110.12, 117.03, 120.20, 127.01, 127.53, 130.12, 133.18, 134.75, 156.15, 157.61, 172.72.

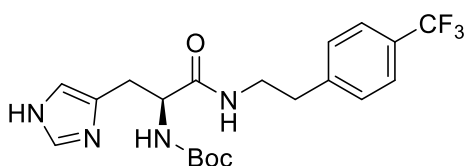


tert-butyl **(S)-3-(1H-imidazol-4-yl)-1-((3-methoxyphenethyl)amino)-1-oxopropan-2-yl)carbamate:** Following general synthetic procedure A the title compound was synthesized as a white solid (71%). $R_f = 0.38$ (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 2.73 (t, $J = 7.25, 2\text{H}$), 2.83 (dd, $J = 14.64, 8.67$ Hz, 1H), 3.00 (dd, $J = 14.74, 5.27$ Hz, 1H), 3.36 - 3.47 (m, 2H),

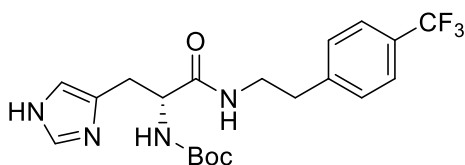
3.78 (s, 3H), 4.26 (t, $J = 6.77$ Hz, 1H), 6.75 - 6.79 (m, 3H), 6.85 (s, 1H), 7.19 (t, $J = 7.89$ Hz, 1H), 7.63 (s, 1H). ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 25.71, 27.91, 33.59, 38.95, 52.65, 53.32, 77.72, 109.97, 112.42, 115.45, 119.16, 127.54, 131.80, 133.21, 138.98, 154.60, 158.36, 171.24.



tert-butyl (R)-3-(1H-imidazol-4-yl)-1-((3-methoxyphenethyl)amino)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (69%). $R_f = 0.35$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.72 (q, $J = 6.78$, 2H), 2.83 (dd, $J = 14.65$, 8.68 Hz, 1H), 2.99 (dd, $J = 14.67$, 5.39 Hz, 1H), 3.36 - 3.48 (m, 2H), 3.79 (s, 3H), 4.25 (t, $J = 6.68$ Hz, 1H), 6.76 - 6.79 (m, 3H), 6.84 (s, 1H), 7.19 (t, $J = 7.91$ Hz, 1H), 7.60 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.28, 29.51, 35.15, 40.49, 54.21, 54.89, 79.26, 111.52, 113.97, 117.01, 120.72, 129.10, 133.24, 134.78, 140.52, 156.14, 159.90, 172.80.

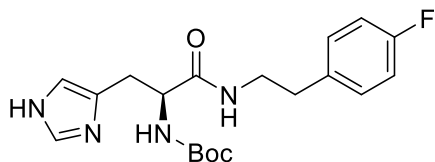


tert-butyl (S)-3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethyl)phenethyl)amino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (84%). $R_f = 0.36$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.80-2.87 (m, 3H), 2.97-3.02 (m, 1H), 3.38-3.50 (m, 2H), 4.24 (t, $J = 6.8$ Hz, 1H), 6.85 (s, 1H), 7.40 (d, $J = 8$ Hz, 2H), 7.58 (d, $J = 8$ Hz, 3H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.24, 29.45, 34.81, 40.07, 54.90, 79.25, 123.10, 124.90, 124.94, 129.16, 134.79, 143.77, 156.17, 172.98.



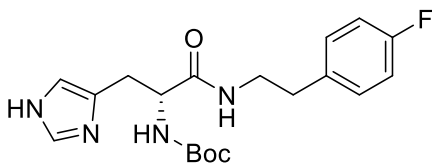
tert-butyl (S)-3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethyl)phenethyl)amino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white

solid (70%). $R_f = 0.49$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 2.80-2.85 (m, 2H), 2.90- 3.05 (m, 2H), 3.40-3.49 (m, 2H), 4.25 (t, $J = 6.6$ Hz, 1H), 6.86 (s, 1H), 7.40 (d, $J = 8$ Hz, 2H), 7.58-7.64 (m, 3H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_{C} : 27.23, 29.36, 34.80, 40.07, 54.84, 79.27, 116.80, 124.90, 124.93, 125.80, 129.16, 134.74, 143.77, 156.25, 172.97.



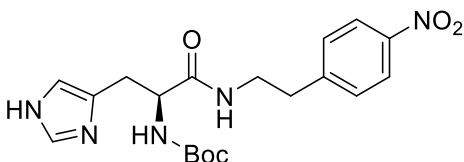
tert-butyl (S)-(1-((4-fluorophenethyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (83%). $R_f = 0.51$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 2.72-2.76 (m, 2H), 2.79-2.85 (m, 1H), 2.97-3.02 (m, 1H), 3.37-3.45 (m, 2H), 4.24 (t, $J = 6.6$ Hz, 1H), 6.84 (s, 1H), 7.00 (t, $J = 8.6$ Hz, 2H), 7.20 (t, $J = 5.6$ Hz, 2H), 7.60 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_{C} : 27.24, 29.50, 34.21, 40.54, 54.87, 79.24, 114.55, 114.76, 130.05, 130.13, 134.77, 134.94, 160.42, 162.83, 172.87.



tert-butyl (R)-(1-((4-fluorophenethyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl)carbamate:

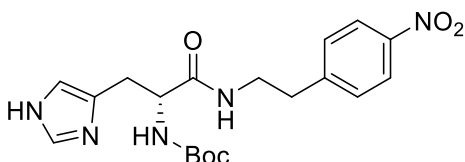
Following general synthetic procedure A the title compound was synthesized as a white solid (73%). $R_f = 0.49$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_{H} : 1.40 (s, 9H), 2.74 (t, $J = 6.8$ Hz, 2H), 2.82-3.37 (m, 4H), 4.27 (s, 1H), 6.90 (s, 1H), 6.99 (t, $J = 8.4$ Hz, 2H), 7.20 (t, $J = 6.4$ Hz, 2H), 7.73 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_{C} : 27.21, 28.74, 34.18, 40.55, 54.43, 79.39, 114.6, 116.92, 130.1, 132.31, 134.63, 156.14, 161.6, 172.34.



tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-((4-nitrophenethyl)amino)-1-oxopropan-2-yl)carbamate:

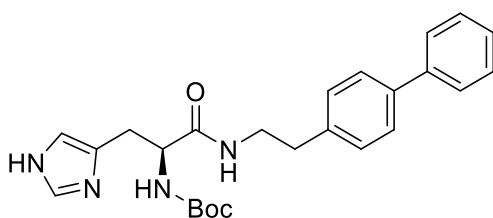
Following general synthetic procedure A the title compound was synthesized as a white solid (63%). R_f

= 0.28 (MeOH : DCM = 1 : 9). ¹H NMR (400 MHz, MeOH-d₄) δ_H: 1.41 (s, 9H), 2.82 (dd, *J* = 14.74, 8.60 Hz, 1H), 2.91 (t, *J* = 6.98 Hz, 2H), 2.99 (dd, *J* = 14.76, 5.55 Hz, 1H), 3.47 (t, *J* = 6.92 Hz, 2H), 4.24 (t, *J* = 6.95 Hz, 1H), 6.86 (s, 1H), 7.45 (d, *J* = 8.48 Hz, 2H), 7.63 (s, 1H), 8.17 (d, *J* = 8.60 Hz, 2H). ¹³C NMR (100 MHz, MeOH-d₄) δ_C: 27.26, 29.38, 34.83, 39.79, 54.84, 79.27, 116.84, 123.12, 129.66, 133.30, 134.75, 146.67, 147.19, 156.15, 172.96.



tert-butyl (R)-3-(1H-imidazol-4-yl)-1-((4-nitrophenethyl)amino)-1-oxopropan-2-yl carbamate:

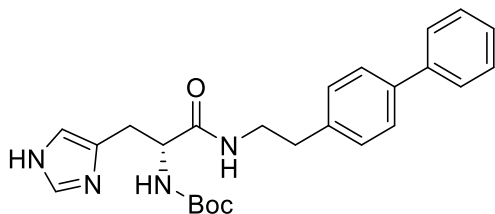
Following general synthetic procedure A the title compound was synthesized as a white solid (64%). *R*_f = 0.28 (MeOH : DCM = 1 : 9). ¹H NMR (400 MHz, MeOH-d₄) δ_H: 1.41 (s, 9H), 2.82 (dd, *J* = 14.68, 8.69 Hz, 1H), 2.91 (t, *J* = 6.96 Hz, 2H), 2.99 (dd, *J* = 14.74, 5.34 Hz, 1H), 3.47 (t, *J* = 6.92 Hz, 2H), 4.24 (t, *J* = 6.93 Hz, 1H), 6.86 (s, 1H), 7.45 (d, *J* = 8.48 Hz, 2H), 7.62 (s, 1H), 8.17 (d, *J* = 8.62 Hz, 2H). ¹³C NMR (100 MHz, MeOH-d₄) δ_C: 27.26, 29.41, 34.83, 39.80, 54.86, 79.27, 116.85, 123.13, 129.66, 133.33, 134.77, 146.67, 147.20, 156.15, 172.98.



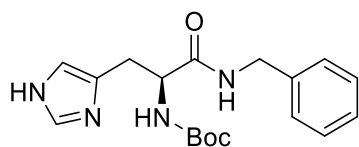
tert-butyl (S)-1-((2-([1,1'-biphenyl]-4-yl)ethyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (67%). *R*_f = 0.82 (MeOH : DCM = 1 : 9).

¹H NMR (400 MHz, MeOH-d₄) δ_H: 1.40 (s, 9H), 2.79-2.87 (m, 3H), 3.01 (dd, *J* = 14.52, 5.37 Hz, 1H), 3.38-3.52 (m, 2H), 4.27 (t, *J* = 6.82 Hz, 1H), 6.85 (s, 1H), 7.28-7.34 (m, 3H), 7.42 (t, *J* = 7.63 Hz, 2H), 7.54-7.60 (m, 5H). ¹³C NMR (100 MHz, MeOH-d₄) δ_C:

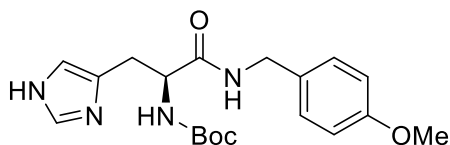
27.27, 29.50, 34.70, 40.51, 54.89, 79.26, 126.42, 126.69, 126.76, 128.41, 128.95, 134.77, 138.16, 139.18, 140.84, 172.85.



tert-butyl (R)-tert-butyl (1-((2-([1,1'-biphenyl]-4-yl)ethyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (67%). $R_f = 0.82$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.79-2.87 (m, 3H), 3.01 (dd, $J = 14.61, 5.32$ Hz, 1H), 3.40-3.48 (m, 2H), 4.27 (t, $J = 6.82$ Hz, 1H), 6.85 (s, 1H), 7.28-7.34 (m, 3H), 7.42 (t, $J = 7.67$ Hz, 2H), 7.55-7.60 (m, 5H). $^{13}\text{C NMR}$ (126 MHz, MeOH- d_4) δ_C : 27.27, 29.50, 34.70, 40.51, 54.90, 79.26, 126.42, 126.69, 126.76, 128.41, 128.95, 134.76, 138.16, 139.18, 140.85, 156.16, 172.84.

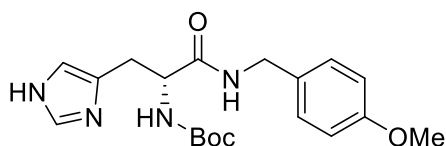


tert-butyl (S)-tert-butyl (1-(benzylamino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (80%). $R_f = 0.42$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.42 (s, 9H), 2.88-2.94 (m, 1H), 3.05-3.10 (m, 1H), 4.31-4.43 (m, 3H), 6.87 (s, 1H), 7.20-7.32 (m, 5H), 7.71 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.25, 29.14, 42.61, 54.88, 79.34, 116.95, 126.75, 127.01, 128.07, 132.96, 134.67, 138.35, 156.20, 172.71.



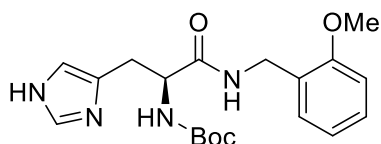
tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-((4-methoxybenzyl)amino)-1-oxopropan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (70%). $R_f = 0.50$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.42 (m, 9H), 2.89 (dd, $J = 14.44$, 8.39 Hz, 1H), 3.05 (dd, $J = 14.55$, 5.74 Hz, 1H), 3.78 (s, 3H), 4.24-4.35 (m, 3H), 6.85 (d, $J = 8.77$ Hz, 3H), 7.13 (d, $J = 8.19$ Hz, 2H), 7.62 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.26, 29.36, 42.12, 54.29, 54.96, 79.29, 113.45, 116.98, 128.36, 130.31, 133.19, 134.76, 156.18, 158.97, 172.66.



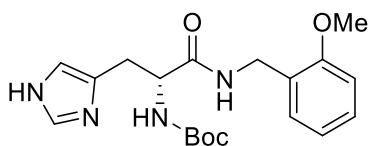
tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethyl)phenethyl)amino)propan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (77%). $R_f = 0.31$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.85-3.06 (m, 2H), 3.78 (s, 3H), 4.29 (m, 3H), 6.83-6.86 (m, 3H), 7.13 (d, $J = 8$ Hz, 2H), 7.59 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.24, 29.38, 42.10, 54.27, 54.98, 79.27, 113.44, 128.36, 130.30, 134.78, 156.27, 158.98, 172.711.



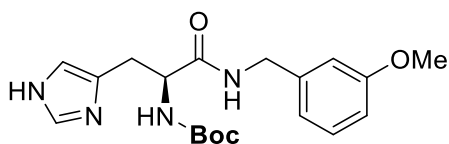
tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-((2-methoxybenzyl)amino)-1-oxopropan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (75%). $R_f = 0.46$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_H : 1.42 (s, 9H), 2.87-2.91 (m, 1H), 3.01-3.07 (m, 1H), 3.85 (s, 3H), 4.32-4.42 (m, 3H), 6.81 (s, 1H), 6.88 (t, $J = 7.42$ Hz, 1H), 6.95 (d, $J = 8.17$ Hz, 1H), 7.11 (d, $J = 7.27$ Hz, 1H), 7.25 (t, $J = 7.63$ Hz, 1H), 7.60 (s, 1H). $^{13}\text{C NMR}$ (126 MHz, MeOH- d_4) δ_C : 27.26, 29.34, 38.15, 54.43, 54.94, 79.29, 109.92, 117.00, 120.00, 125.81, 128.03, 128.19, 134.74, 156.22, 157.29, 172.75.



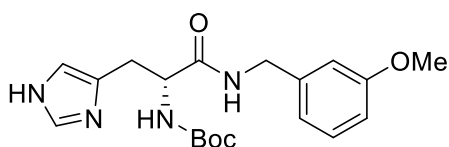
tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-((2-methoxybenzyl)amino)-1-oxopropan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (65%). $R_f = 0.43$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_{H} : 1.42 (m, 9H), 2.88 (dd, $J = 14.64, 8.44$ Hz, 1H), 3.05 (dd, $J = 14.67, 5.51$ Hz, 1H), 3.85 (s, 3H), 4.31-4.42 (m, 3H), 6.81 (s, 1H), 6.88 (t, $J = 7.40$ Hz, 1H), 6.95 (d, $J = 8.18$ Hz, 1H), 7.12 (d, $J = 7.30$ Hz, 1H), 7.25 (t, $J = 7.16$ Hz, 1H), 7.58 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_{C} : 27.29, 29.38, 38.16, 54.44, 54.96, 79.29, 109.91, 120.00, 125.81, 128.01, 128.19, 134.76, 156.21, 157.27, 172.77.



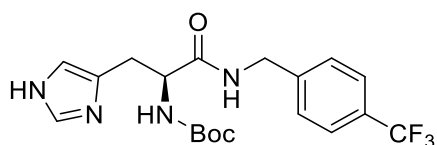
tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-((3-methoxybenzyl)amino)-1-oxopropan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (65%). $R_f = 0.47$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_{H} : 1.42(s, 9H), 2.88-2.93 (m, 1H), 3.01-3.08 (m, 1H), 3.79 (s, 3H), 4.34 (q, $J = 13.41$ Hz, 3H), 6.78-6.85 (m, 4H), 7.21 (t, $J = 7.77$ Hz, 1H), 7.61 (s, 1H). $^{13}\text{C NMR}$ (126 MHz, MeOH- d_4) δ_{C} : 27.27, 29.36, 42.55, 54.25, 55.01, 79.28, 112.30, 112.50, 119.17, 129.06, 134.78, 139.89, 159.93, 172.88.



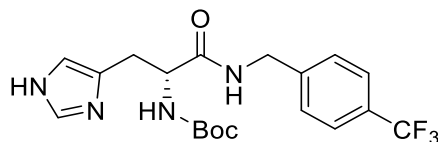
tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-((3-methoxybenzyl)amino)-1-oxopropan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (61%). $R_f = 0.42$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.42 (s, 9H), 2.90 (dd, $J = 14.61, 8.45$ Hz, 1H), 3.06 (dd, $J = 14.70, 5.65$ Hz, 1H), 3.79 (m, 3H), 4.30- 4.39 (m, 3H), 6.81 (dd, $J = 18.07, 7.73$ Hz, 4H), 7.21 (t, $J = 7.79$ Hz, 1H), 7.61 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.26, 29.34, 42.55, 54.25, 55.00, 79.29, 112.30, 112.50, 116.91, 119.19, 129.06, 133.29, 134.77, 139.90, 156.20, 159.93, 172.90.



tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethyl)benzyl)amino)propan-2-yl)carbamate:

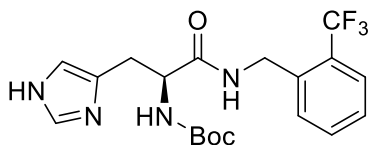
Following general synthetic procedure A the title compound was synthesized as a white solid (74%). $R_f = 0.39$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.43 (s, 9H), 2.89-2.95 (m, 1H), 3.01-3.09 (m, 1H), 4.33-4.50 (m, 3H), 6.87 (s, 1H), 7.38 (d, $J = 7.6$ Hz, 2H), 7.58-7.62 (m, 3H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.24, 29.24, 42.06, 55.08, 79.32, 116.96, 123.22, 124.87, 125.64, 127.19, 127.38, 129.04, 134.85, 143.15, 156.21, 173.16.



tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethyl)benzyl)amino)propan-2-yl)carbamate:

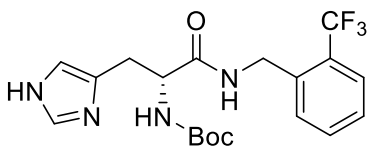
Following general synthetic procedure A the title compound was synthesized as a white solid (69%). $R_f = 0.31$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.41 (s, 9H), 2.93-3.08 (m, 2H), 4.36-4.44 (m, 3H), 6.93 (s, 1H), 7.39 (s, 2H), 7.58 (s, 2H), 7.80 (s, 1H); $^{13}\text{C NMR}$ (100 MHz,

MeOH-d₄) δ_C : 27.23, 28.86, 42.09, 54.87, 79.41, 116.89, 122.98, 124.88, 125.67, 127.41, 132.86, 134.65, 143.12, 156.23, 172.91.



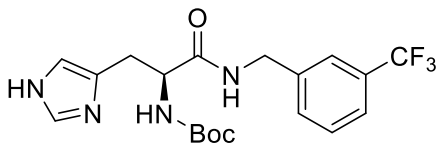
tert-butyl (S)-3-(1H-imidazol-4-yl)-1-oxo-1-((2-(trifluoromethyl)benzyl)amino)propan-2-

yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (64%). R_f = 0.45 (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH-d₄) δ_H : 1.42 (s, 9H), 2.92 (dd, J = 14.61, 8.18 Hz, 1H), 3.06 (dd, J = 14.65, 5.96 Hz, 1H), 4.36 (t, J = 6.90 Hz, 1H), 4.56 (q, J = 12.57 Hz, 2H), 6.86 (s, 1H), 7.35-7.43 (m, 2H), 7.54 (t, J = 7.55 Hz, 1H), 7.63 - 7.67 (m, 2H). ^{13}C NMR (100 MHz, MeOH-d₄) δ_C : 25.72, 27.62, 37.60, 53.54, 77.81, 115.34, 121.66, 123.83, 123.89, 124.37, 125.46, 126.86, 130.49, 133.32, 135.07, 154.74, 171.69.

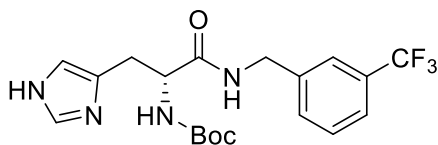


tert-butyl (R)-3-(1H-imidazol-4-yl)-1-oxo-1-((2-(trifluoromethyl)benzyl)amino)propan-2-

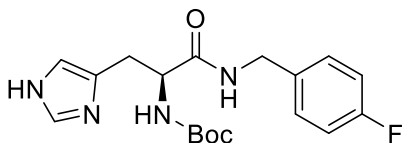
yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (72%). R_f = 0.45 (MeOH : DCM = 1 : 9). ^1H NMR (500 MHz, MeOH-d₄) δ_H : 1.43 (s, 9H), 2.95 (dd, J = 14.60, 8.19 Hz, 1H), 3.09 (dd, J = 14.62, 5.88 Hz, 1H), 4.40 (t, J = 6.91 Hz, 1H), 4.58 (q, J = 15.54 Hz, 2H), 6.88 (s, 1H), 7.37-7.43 (m, 2H), 7.54 (t, J = 7.50 Hz, 1H), 7.63 (s, 1H), 7.67 (d, J = 7.74 Hz, 1H). ^{13}C NMR (126 MHz, MeOH-d₄) δ_C : 27.30, 29.24, 39.14, 55.13, 79.36, 116.91, 121.29, 123.46, 125.33, 125.37, 125.43, 125.63, 126.99, 127.06, 127.31, 127.81, 128.39, 132.03, 133.40, 134.89, 136.61, 156.27, 173.27.



tert-butyl (S)-3-(1H-imidazol-4-yl)-1-oxo-1-((3-(trifluoromethyl)benzyl)amino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (82%). $R_f = 0.33$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_{H} : 1.42 (s, 9H), 2.88-2.93 (m, 1H), 3.04-3.08 (m, 1H), 4.32-4.46 (m, 3H), 6.84 (s, 1H), 7.47-7.60 (m, 5H); $^{13}\text{C NMR}$ (125 MHz, MeOH- d_4) δ_{C} : 27.2, 29.6, 42.1, 55.0, 79.3, 116.8, 123.1, 123.4, 123.7, 125.3, 130.2, 130.4, 130.7, 134.8, 140.0, 156.2, 173.1.

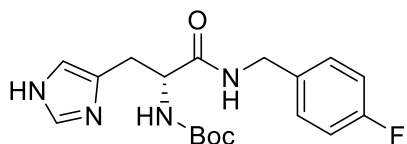


tert-butyl (R)-3-(1H-imidazol-4-yl)-1-oxo-1-((3-(trifluoromethyl)benzyl)amino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (74%). $R_f = 0.35$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, DMSO- d_6) δ_{H} : 1.42 (s, 9H), 2.88-2.93 (m, 1H), 3.04-3.08 (m, 1H), 4.32-4.47 (m, 3H), 6.84 (s, 1H), 7.47-7.61 (m, 5H); $^{13}\text{C NMR}$ (100 MHz, DMSO- d_6) δ_{C} : 27.2, 29.2, 42.0, 55.0, 79.3, 99.9, 123.1, 123.4, 123.7, 125.3, 128.3, 130.2, 130.4, 130.7, 134.8, 139.9, 156.2, 173.1.



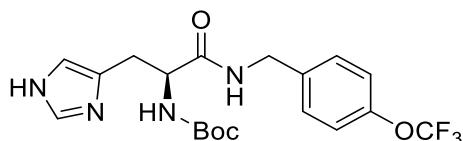
tert-butyl (S)-1-((4-fluorobenzyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (86%). $R_f = 0.34$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_{H} : 1.42 (s, 9H), 2.87-2.92 (m, 1H), 3.02-

3.07 (m, 1H), 4.34 (q, $J = 14.3$ Hz, 3H), 6.84 (s, 1H), 7.02 (t, $J = 8.8$ Hz, 2H), 7.21 (t, $J = 6.6$ Hz), 7.61 (s, 1H); ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 27.24, 29.29, 41.84, 55.01, 79.30, 114.62, 128.93, 134.80, 163.34, 172.88.



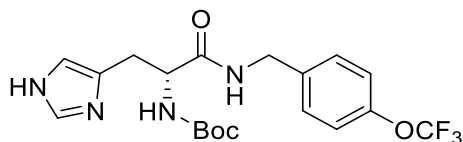
tert-butyl (R)-1-((4-fluorobenzyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (70 %). $R_f = 0.33$ (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 2.94-3.00 (m, 1H), 3.08-3.22 (m, 1H), 4.27-4.40 (m, 3H), 7.04 (t, $J = 8.6$ Hz, 2H), 7.14 (s, 1H), 7.26-7.29 (m, 2H), 8.43 (s, 1H); ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 27.18, 27.71, 35.60, 41.96, 54.05, 79.66, 114.7, 116.95, 128.98, 129.08, 131.08, 133.89, 134.43, 163.39, 174.42.



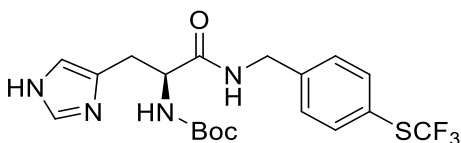
tert-butyl (S)-3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethoxy)benzyl)amino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (89%). $R_f = 0.38$ (MeOH : DCM = 1 : 9).

^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.42 (s, 9H), 2.87-2.93 (m, 1H), 3.03-3.08 (m, 1H), 4.31-4.43 (m, 3H), 6.85 (s, 1H), 7.20 (d, $J = 8.4$ Hz, 2H), 7.29 (d, $J = 8.4$ Hz, 2H), 7.60 (s, 1H); ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 27.25, 29.29, 41.80, 55.08, 79.31, 119.26, 120.61, 121.79, 128.61, 134.85, 137.83, 148.11, 156.23, 173.05.



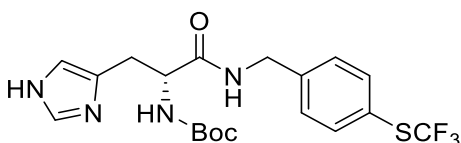
tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethoxy)benzyl)amino)propan-2-

yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (91%). $R_f = 0.29$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.42 (s, 9H), 2.87-2.93 (m, 1H), 3.01-3.08 (m, 1H), 4.31-4.43 (m, 3H), 6.85 (s, 1H), 7.20 (d, $J = 8$ Hz, 2H), 7.29 (d, $J = 8.4$ Hz, 2H), 7.60 (s, 1H); $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.23, 29.26, 41.79, 55.07, 79.30, 119.25, 120.60, 121.79, 128.61, 134.83, 137.83, 148.10, 156.22, 173.04.



tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethylthio)benzyl)amino)propan-2-

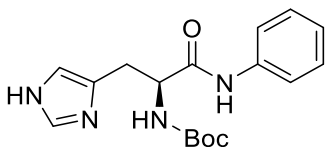
yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (66%). $R_f = 0.53$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.43 (s, 9H), 2.92 (dd, $J = 14.60, 8.27$ Hz, 1H), 3.07 (dd, $J = 14.68, 5.89$ Hz, 1H), 4.35 (dd, $J = 13.14, 5.62$ Hz, 1H), 4.42-4.48 (m, 2H), 6.87 (s, 1H), 7.33 (d, $J = 7.92$ Hz, 2H), 7.62 (d, $J = 6.18$ Hz, 3H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.26, 29.21, 42.01, 55.08, 79.34, 116.88, 122.17, 128.16, 128.25, 131.30, 134.82, 136.16, 142.35, 156.24, 173.12.



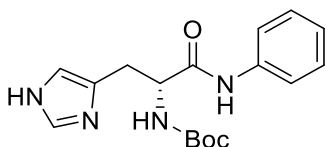
tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-(trifluoromethylthio)benzyl)amino)propan-2-

yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (64%). $R_f = 0.53$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_H : 1.43 (s, 9H), 2.92 (dd, $J = 14.66, 8.20$ Hz, 1H), 3.07 (dd, $J = 14.64, 5.93$ Hz, 1H), 4.35 (t, $J = 6.98$ Hz, 1H), 4.43 (q, $J = 13.72$ Hz, 2H), 6.88 (s, 1H), 7.33 (d, $J = 7.92$ Hz, 2H), 7.62-7.66 (m, 3H). $^{13}\text{C NMR}$ (126 MHz, MeOH- d_4) δ_C :

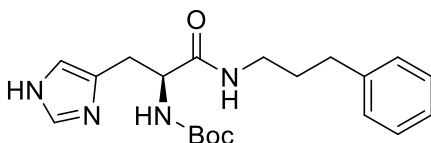
27.28, 29.19, 42.02, 55.07, 79.35, 116.91, 122.17, 128.17, 128.56, 131.00, 133.28, 134.82, 136.16, 142.35, 156.24, 173.10.



tert-butyl (S)-3-(1H-imidazol-4-yl)-1-oxo-1-(phenylamino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (64%). $R_f = 0.30$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.43 (s, 9H), 2.96 (dd, $J = 14.38, 8.28$ Hz, 1H), 3.10 (dd, $J = 14.50, 5.68$ Hz, 1H), 4.43 (t, $J = 6.62$ Hz, 1H), 6.90 (s, 1H), 7.11 (t, $J = 7.41$ Hz, 1H), 7.31 (t, $J = 7.89$ Hz, 2H), 7.52 (d, $J = 7.87$ Hz, 2H), 7.63 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 25.73, 28.13, 53.94, 77.80, 115.27, 118.63, 122.51, 126.85, 133.29, 136.47, 154.76, 169.77.

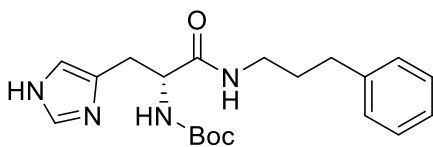


tert-butyl (R)-3-(1H-imidazol-4-yl)-1-oxo-1-(phenylamino)propan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (68%). $R_f = 0.30$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.44 (s, 9H), 2.96 (dd, $J = 14.59, 8.28$ Hz, 1H), 3.10 (dd, $J = 14.73, 5.59$ Hz, 1H), 4.43 (t, $J = 6.75$ Hz, 1H), 6.90 (s, 1H), 7.11 (t, $J = 7.42$ Hz, 1H), 7.31 (t, $J = 7.92$ Hz, 2H), 7.53 (d, $J = 7.73$ Hz, 2H), 7.63 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.27, 29.67, 55.47, 79.34, 116.81, 120.16, 124.04, 128.39, 133.31, 134.82, 138.00, 156.30, 171.30.



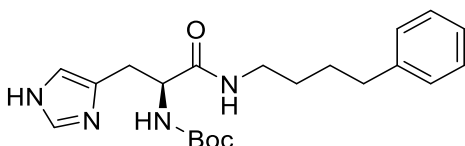
tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-oxo-1-((3-phenylpropyl)amino)propan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (55%). $R_f = 0.53$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_{H} : 1.42 (s, 9H), 1.73-1.81 (m, 2H), 2.59 (t, $J = 7.76$ Hz, 2H), 2.88 (dd, $J = 14.68, 8.34$ Hz, 1H), 3.03 (dd, $J = 14.63, 5.65$ Hz, 1H), 3.14-3.26 (m, 2H), 4.28 (t, $J = 6.85$ Hz, 1H), 6.88 (s, 1H), 7.14-7.19 (m, 3H), 7.26 (t, $J = 7.44$ Hz, 2H), 7.61 (s, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_{C} : 27.29, 29.46, 30.81, 32.61, 38.57, 54.98, 79.27, 116.98, 125.49, 127.99, 128.04, 133.28, 134.78, 141.60, 156.16, 172.85.



tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-oxo-1-((3-phenylpropyl)amino)propan-2-yl)carbamate:

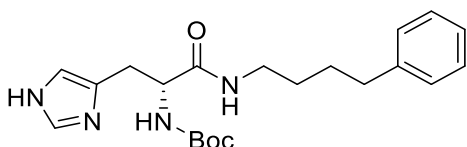
Following general synthetic procedure A the title compound was synthesized as a white solid (54%). $R_f = 0.53$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_{H} : 1.42 (s, 9H), 1.74-1.79 (m, 2H), 2.58 (t, $J = 7.68$ Hz, 2H), 2.89 (dd, $J = 14.59, 8.36$ Hz, 1H), 3.04 (dd, $J = 14.66, 5.68$ Hz, 1H), 3.14-3.24 (m, 2H), 4.30 (t, $J = 6.83$ Hz, 1H), 6.88 (s, 1H), 7.14-7.18 (m, 3H), 7.25 (t, $J = 7.52$ Hz, 2H), 7.61 (s, 1H). $^{13}\text{C NMR}$ (126 MHz, MeOH- d_4) δ_{C} : 27.36, 29.52, 30.81, 32.63, 38.60, 55.00, 79.27, 117.05, 125.52, 128.02, 128.07, 133.29, 134.82, 141.59, 156.16, 172.85.



tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-oxo-1-((4-phenylbutyl)amino)propan-2-yl)carbamate:

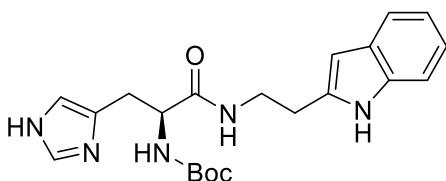
Following general synthetic procedure A the title compound was synthesized as a white solid (51%). $R_f = 0.42$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 1.46-1.52 (m, 2H), 1.57-1.63 (m, 2H), 2.61 (t, $J = 7.50$ Hz, 2H), 2.86 (dd, $J = 14.68, 8.49$ Hz, 1H), 3.02 (dd, $J = 14.61, 5.51$ Hz,

1H), 3.14-3.25 (m, 2H), 4.26 (t, $J = 6.77$ Hz, 1H), 6.86 (s, 1H), 7.14-7.19 (m, 3H), 7.25 (t, $J = 7.53$ Hz, 2H), 7.59 (s, 1H). ^{13}C NMR (126 MHz, MeOH- d_4) δ_{C} : 27.29, 28.35, 28.54, 29.49, 35.07, 38.74, 54.95, 79.25, 117.00, 125.35, 127.91, 127.98, 128.06, 133.25, 134.76, 142.14, 156.14, 172.77.



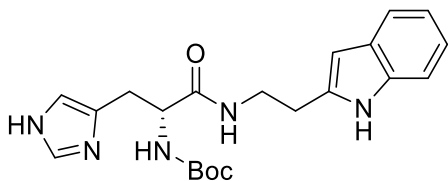
tert-butyl (R)-3-(1H-imidazol-4-yl)-1-oxo-1-((4-phenylbutyl)amino)propan-2-yl carbamate:

Following general synthetic procedure A the title compound was synthesized as a white solid (50%). $R_f = 0.42$ (MeOH : DCM = 1 : 9). ^1H NMR (500 MHz, MeOH- d_4) δ_{H} : 1.41 (s, 9H), 1.46-1.52 (m, 2H), 1.57-1.63 (m, 2H), 2.61 (t, $J = 7.50$ Hz, 2H), 2.86 (q, $J = 7.13$ Hz, 1H), 3.00-3.04 (m, 1H), 3.14-3.25 (m, 2H), 4.27 (t, $J = 6.81$ Hz, 1H), 6.87 (s, 1H), 7.13-7.19 (m, 3H), 7.24-7.27 (m, 2H), 7.61 (s, 1H). ^{13}C NMR (126 MHz, MeOH- d_4) δ_{C} : 27.30, 28.36, 28.54, 29.44, 35.07, 38.75, 54.93, 79.26, 117.00, 125.35, 127.91, 128.07, 133.18, 134.74, 142.13, 156.14, 172.73.

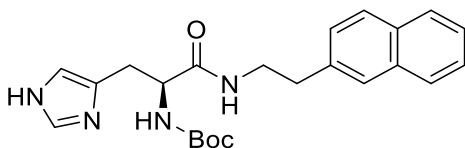


tert-butyl (S)-1-((2-(1H-indol-2-yl)ethyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl carbamate:

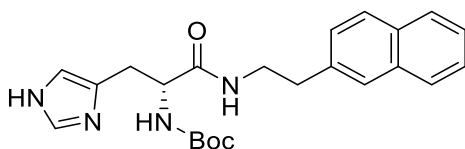
Following general synthetic procedure A the title compound was synthesized as a yellowish solid (75%). $R_f = 0.35$ (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.40 (s, 9H), 2.81-2.87 (m, 1H), 3.02 (dd, $J = 14.86, 5.26$ Hz, 1H), 3.43-3.54 (m, 2H), 4.26-4.29 (m, 1H), 6.86 (s, 1H), 7.00-7.12 (m, 3H), 7.33-7.35 (m, 1H), 7.57 (d, $J = 7.85$ Hz, 1H), 7.68 (s, 1H). ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 24.77, 27.24, 29.26, 39.85, 54.80, 79.32, 110.85, 111.62, 117.08, 117.86, 118.24, 120.95, 122.08, 127.29, 132.93, 134.63, 136.79, 156.16, 172.61.



tert-butyl (R)-1-((2-(1H-indol-2-yl)ethyl)amino)-3-(1H-imidazol-4-yl)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a yellowish solid (73%). $R_f = 0.35$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.40 (s, 9H), 2.81-2.86 (m, 1H), 2.96-3.03 (m, 1H), 3.42-3.54 (m, 2H), 4.25-4.28 (m, 1H), 6.83 (s, 1H), 7.00-7.12 (m, 3H), 7.33-7.35 (m, 1H), 7.55-7.58 (m, 2H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 23.24, 25.71, 27.91, 38.29, 53.37, 77.75, 109.31, 110.09, 116.33, 116.70, 119.42, 120.55, 125.76, 131.63, 133.21, 135.25, 154.63, 171.21.

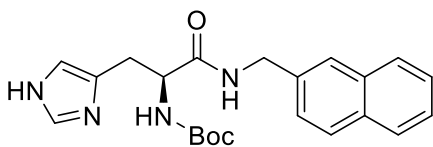


tert-butyl (S)-3-(1H-imidazol-4-yl)-1-((2-(naphthalen-2-yl)ethyl)amino)-1-oxopropan-2-yl carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (60%). $R_f = 0.60$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.37 (s, 9H), 2.81 (dd, $J = 14.74, 8.61$ Hz, 1H), 2.91-3.01 (m, 3H), 3.44-3.57 (m, 2H), 4.25 (t, $J = 6.82$ Hz, 1H), 6.82 (s, 1H), 7.36 (d, $J = 8.50$ Hz, 1H), 7.40-7.46 (m, 2H), 7.58 (s, 1H), 7.67 (s, 1H), 7.80 (td, $J = 4.45, 2.81$ Hz, 3H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 15.06, 27.23, 29.44, 35.18, 40.40, 54.86, 79.28, 116.98, 125.00, 125.58, 126.74, 126.92, 127.18, 127.71, 132.37, 133.71, 134.74, 136.50, 156.19, 172.87.



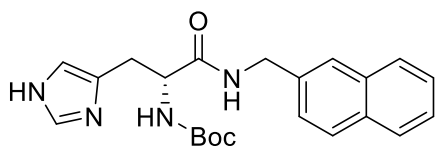
tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-((2-(naphthalen-2-yl)ethyl)amino)-1-oxopropan-2-

yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (61%). $R_f = 0.60$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.38 (s, 9H), 2.81 (dd, $J = 14.61, 8.50$ Hz, 1H), 2.92-3.02 (m, 3H), 3.45-3.58 (m, 2H), 4.25 (t, $J = 6.92$ Hz, 1H), 6.83 (s, 1H), 7.37 (dd, $J = 8.47, 1.14$ Hz, 1H), 7.40-7.47 (m, 2H), 7.59 (s, 1H), 7.67 (s, 1H), 7.80 (dt, $J = 6.67, 2.28$ Hz, 3H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.22, 29.42, 35.17, 40.39, 54.87, 79.25, 116.98, 125.00, 125.58, 126.73, 126.92, 127.18, 127.71, 132.37, 133.72, 134.73, 136.51, 156.16, 172.85.



tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-((naphthalen-2-ylmethyl)amino)-1-oxopropan-2-

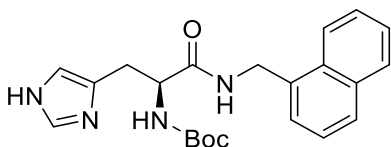
yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (72%). $R_f = 0.80$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_H : 1.42 (s, 9H), 2.94 (dd, $J = 14.60, 8.38$ Hz, 1H), 3.09 (dd, $J = 14.68, 5.66$ Hz, 1H), 4.39 (t, $J = 6.84$ Hz, 1H), 4.54 (q, $J = 16.76$ Hz, 2H), 6.87 (s, 1H), 7.33 (d, $J = 8.35$ Hz, 1H), 7.43-7.48 (m, 2H), 7.60 (s, 1H), 7.70 (s, 1H), 7.79-7.83 (m, 3H). $^{13}\text{C NMR}$ (126 MHz, MeOH- d_4) δ_C : 27.08, 27.29, 29.38, 42.75, 55.09, 79.31, 116.96, 125.28, 125.35, 125.39, 125.73, 127.24, 127.36, 127.80, 132.76, 133.47, 134.82, 135.81, 156.26, 173.04.



tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-((naphthalen-2-ylmethyl)amino)-1-oxopropan-2-

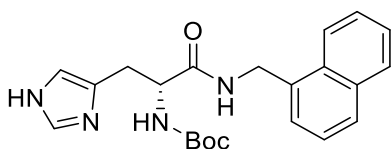
yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (70%). $R_f = 0.80$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (500 MHz, MeOH- d_4) δ_H : 1.42 (s, 9H), 2.94 (dd, $J = 14.61, 8.29$ Hz, 1H), 3.09 (dd, $J = 14.62, 5.70$ Hz, 1H), 4.39 (t, $J = 6.86$ Hz, 1H), 4.54 (q, $J = 16.77$

Hz, 2H), 6.87 (s, 1H), 7.33 (d, $J = 8.32$ Hz, 1H), 7.43-7.48 (m, 2H), 7.60 (s, 1H), 7.70 (s, 1H), 7.79-7.83 (m, 3H). ^{13}C NMR (126 MHz, MeOH- d_4) δ_{C} : 27.29, 29.39, 42.75, 55.09, 79.31, 117.11, 125.27, 125.35, 125.39, 125.72, 127.23, 127.35, 127.79, 132.75, 133.46, 134.82, 135.81, 156.25, 173.03.



tert-butyl (S)-(3-(1H-imidazol-4-yl)-1-((naphthalen-1-ylmethyl)amino)-1-oxopropan-2-

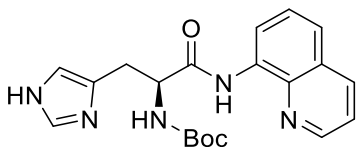
yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (76%). $R_f = 0.50$ (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.39 (s, 9H), 2.90 (dd, $J = 14.60, 8.36$ Hz, 1H), 3.04-3.08 (m, 1H), 4.37 (t, $J = 6.87$ Hz, 1H), 4.83 (q, $J = 21.08$ Hz, 2H), 6.83 (s, 1H), 7.39 (dt, $J = 18.35, 8.43$ Hz, 2H), 7.48-7.54 (m, 2H), 7.58 (s, 1H), 7.80 (d, $J = 8.0$ Hz, 1H), 7.88 (d, $J = 7.5$ Hz, 1H), 7.99 (d, $J = 7.76$ Hz, 1H). ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 27.27, 29.40, 40.75, 54.99, 79.28, 116.90, 122.95, 124.98, 125.29, 125.32, 125.34, 125.43, 125.98, 127.75, 128.32, 131.23, 133.23, 133.30, 133.89, 134.75, 156.19, 172.73.



tert-butyl (R)-(3-(1H-imidazol-4-yl)-1-((naphthalen-1-ylmethyl)amino)-1-oxopropan-2-

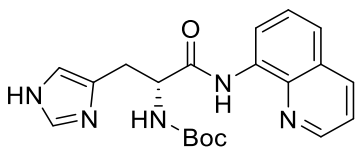
yl)carbamate: Following general synthetic procedure A the title compound was synthesized as a white solid (75%). $R_f = 0.50$ (MeOH : DCM = 1 : 9). ^1H NMR (400 MHz, MeOH- d_4) δ_{H} : 1.39 (s, 9H), 2.90 (dd, $J = 14.60, 8.34$ Hz, 1H), 3.05 (dd, $J = 14.63, 5.61$ Hz, 1H), 4.36 (t, $J = 6.91$ Hz, 1H), 4.82 (t, $J = 16.60$ Hz, 2H), 6.82 (s, 1H), 7.37-7.44 (m, 2H), 7.48-7.58 (m, 3H), 7.81 (d, $J = 7.95$ Hz, 1H), 7.89 (dd, $J = 7.21, 2.11$ Hz, 1H), 8.00 (d, $J = 7.82$ Hz, 1H). ^{13}C NMR (100 MHz, MeOH- d_4) δ_{C} : 27.00, 27.25, 29.43,

40.74, 55.01, 79.28, 116.92, 122.96, 124.99, 125.33, 125.35, 125.44, 125.99, 127.75, 128.32, 131.24, 133.31, 133.90, 134.78, 156.22, 172.78.



tert-butyl (S)-tert-butyl (3-(1H-imidazol-4-yl)-1-oxo-1-(quinolin-8-ylamino)propan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a yellowish solid (56%). $R_f = 0.53$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.48 (s, 9H), 3.07 (dd, $J = 14.87$, 9.10 Hz, 1H), 3.29 (d, $J = 4.75$ Hz, 1H), 4.59 (dd, $J = 8.86$, 5.15 Hz, 1H), 6.93 (s, 1H), 7.54-7.58 (m, 2H), 7.64 (dd, $J = 9.25$, 2.05 Hz, 2H), 8.30 (dd, $J = 8.32$, 1.60 Hz, 1H), 8.68 (dd, $J = 7.60$, 1.35 Hz, 1H), 8.84 (dd, $J = 4.24$, 1.66 Hz, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.33, 28.70, 56.18, 79.67, 116.19, 121.70, 122.11, 126.59, 128.12, 133.68, 134.95, 136.15, 138.56, 148.47, 156.56, 171.00.

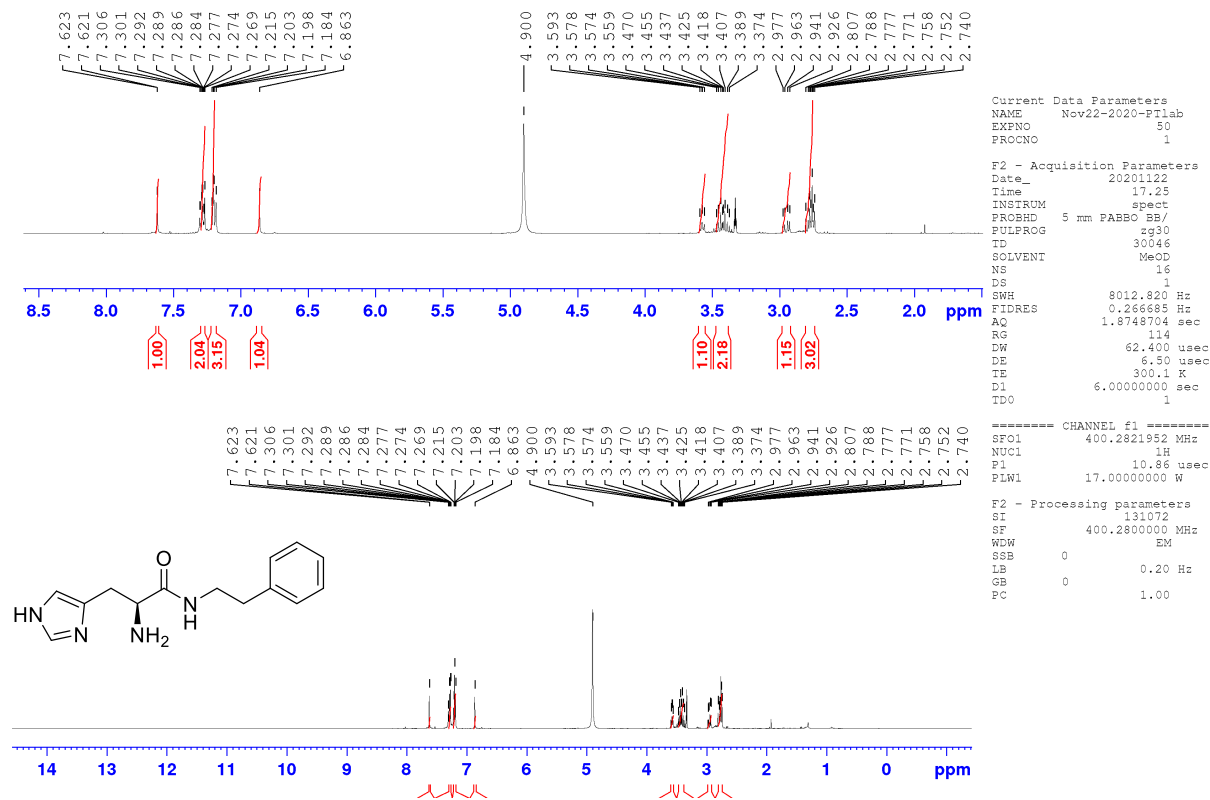


tert-butyl (R)-tert-butyl (3-(1H-imidazol-4-yl)-1-oxo-1-(quinolin-8-ylamino)propan-2-yl)carbamate:

Following general synthetic procedure A the title compound was synthesized as a yellowish solid (54%). $R_f = 0.53$ (MeOH : DCM = 1 : 9). $^1\text{H NMR}$ (400 MHz, MeOH- d_4) δ_H : 1.48 (s, 9H), 3.07 (dd, $J = 14.69$, 8.99 Hz, 1H), 3.28 (d, $J = 4.83$ Hz, 1H), 4.59 (dd, $J = 8.62$, 5.10 Hz, 1H), 6.93 (s, 1H), 7.54-7.58 (m, 2H), 7.63 (d, $J = 5.26$ Hz, 2H), 8.30 (dd, $J = 8.31$, 1.54 Hz, 1H), 8.68 (dd, $J = 7.59$, 1.28 Hz, 1H), 8.84 (dd, $J = 4.22$, 1.62 Hz, 1H). $^{13}\text{C NMR}$ (100 MHz, MeOH- d_4) δ_C : 27.35, 28.79, 56.23, 79.66, 116.18, 117.12, 121.68, 122.09, 126.57, 128.08, 133.41, 133.66, 134.98, 136.12, 138.53, 148.44, 156.54, 171.02.

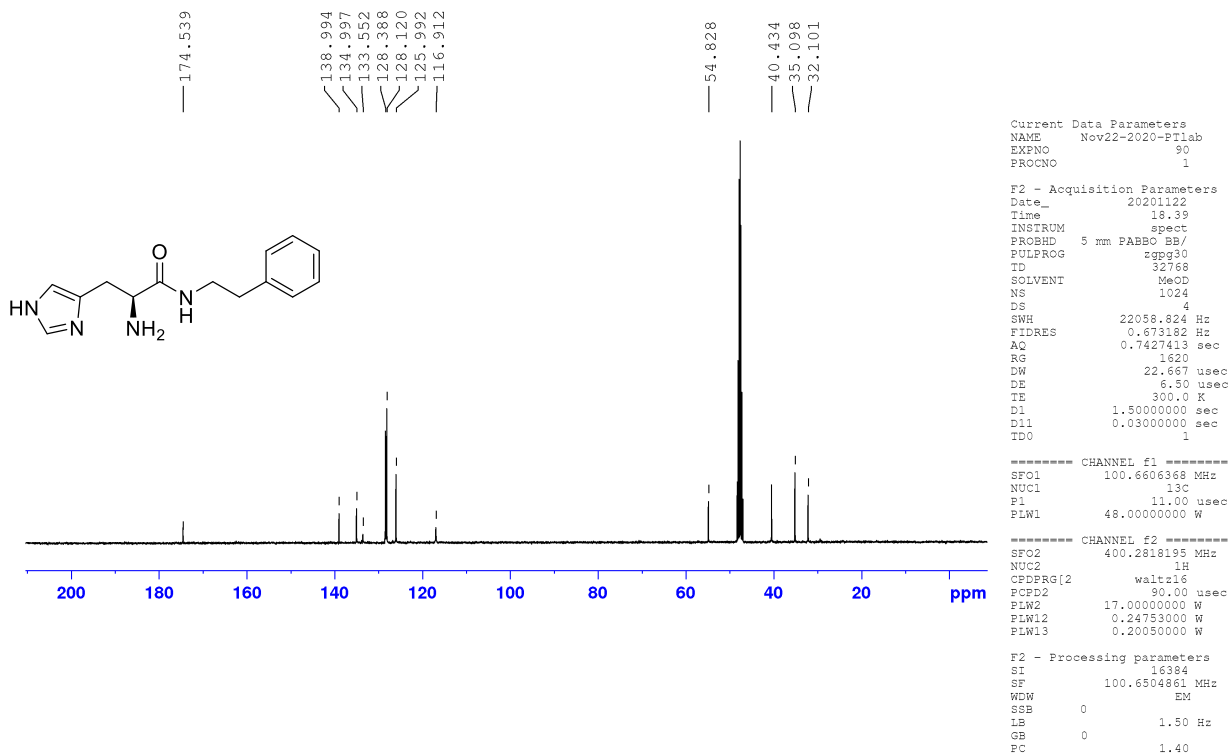
¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-phenethylpropanamide (**4c**):

PSK-14
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 1

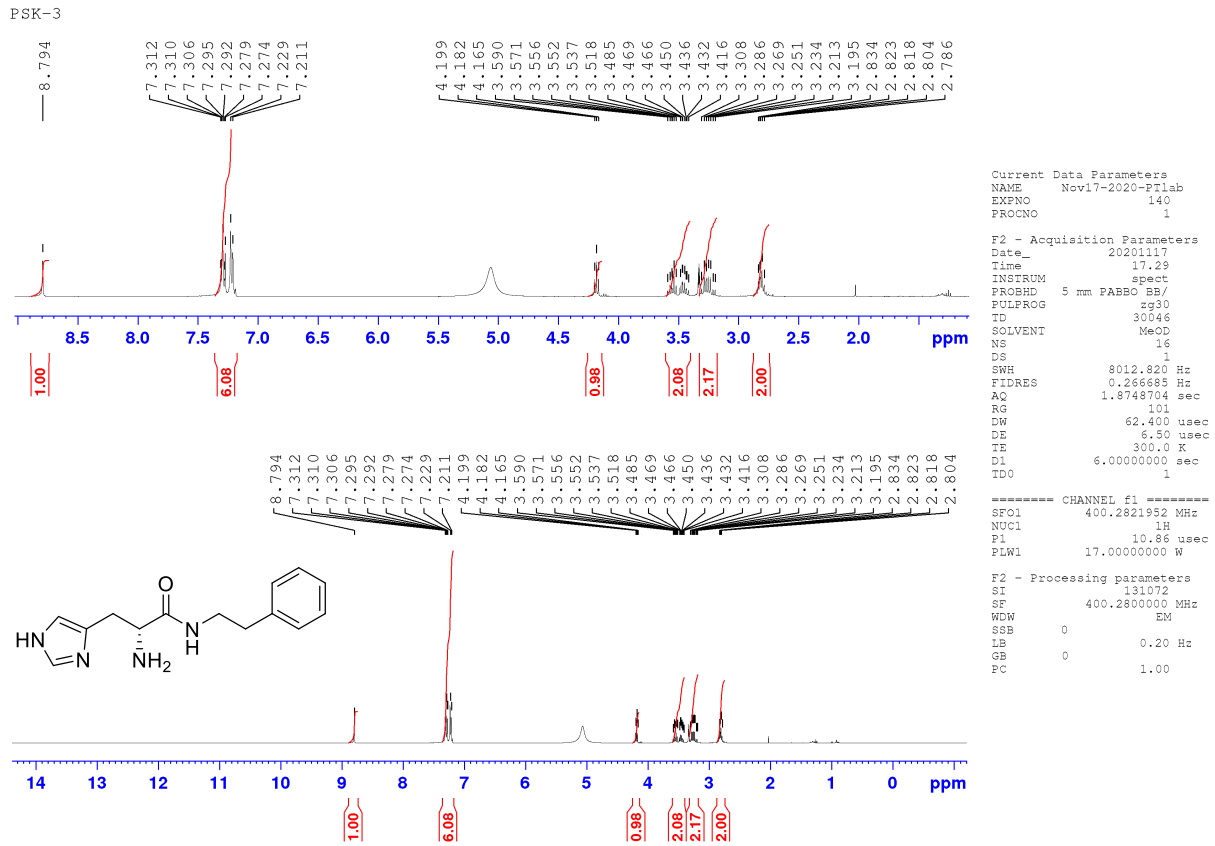


¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-phenethylpropanamide (**4c**):

PSK-14 Carbon
zgpg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 8

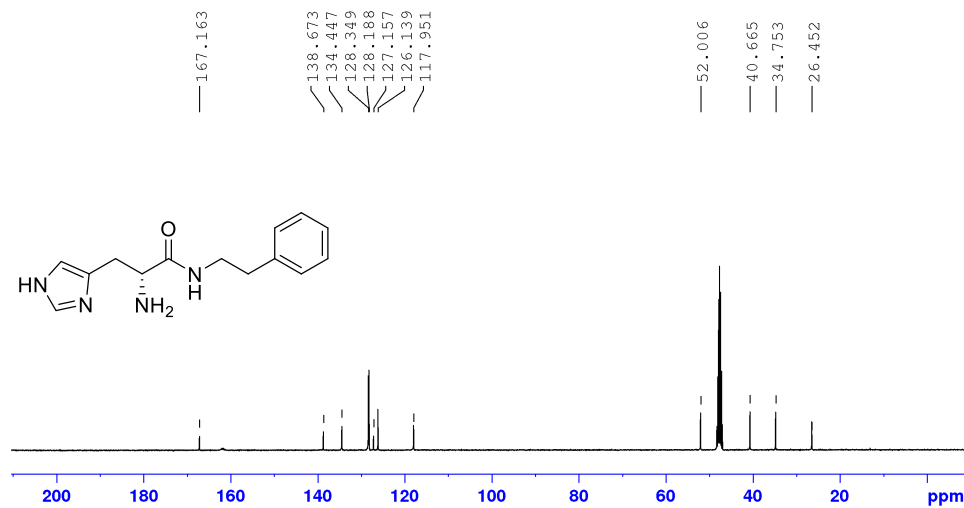


¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-phenethylpropanamide (**4d**):



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-phenethylpropanamide (**4d**):

PSK-3 Carbon
zgpg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} FTlab 11



Current Data Parameters
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PROCNO 1

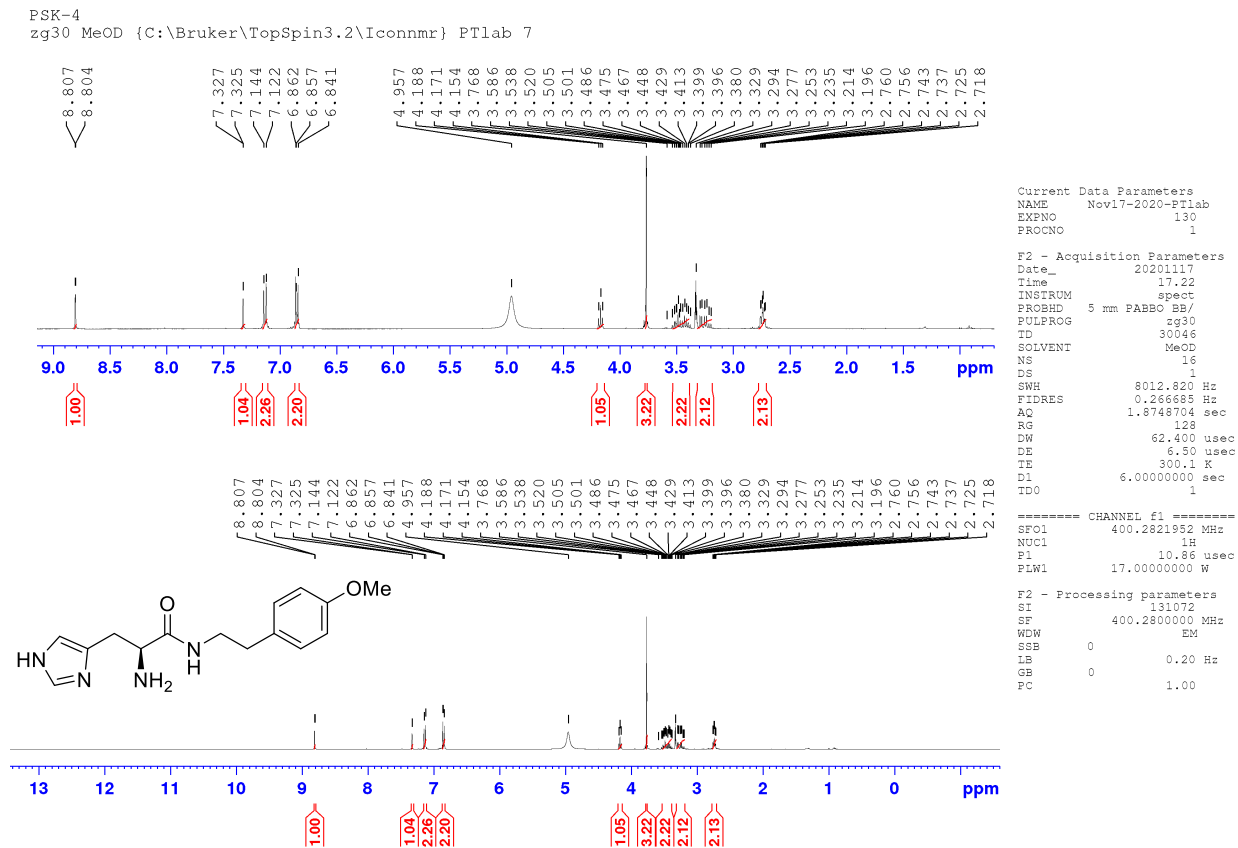
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RG 1620
DW 22.667 usec
DE 6.50 usec
TE 300.1 K
D1 1.50000000 sec
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PLW1 48.00000000 W

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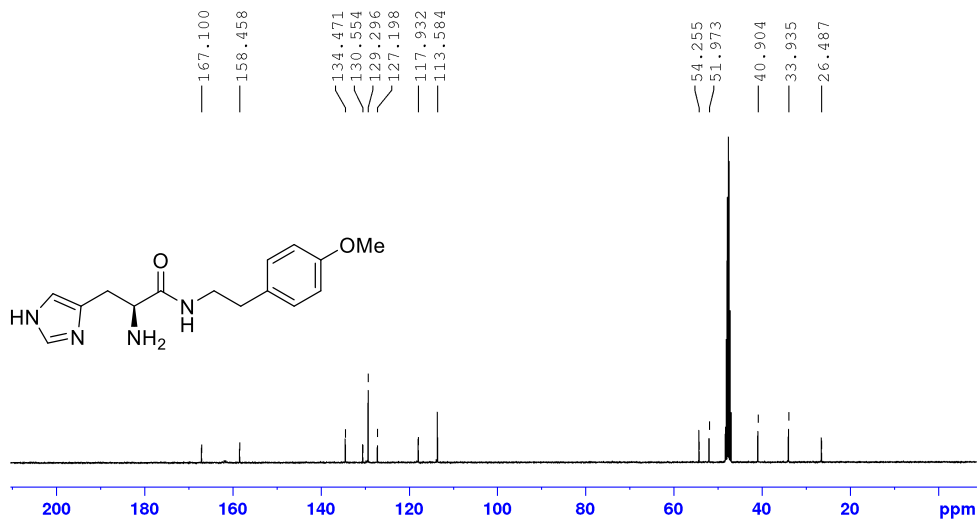
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¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxyphenethyl)propanamide (**4e**):



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxyphenethyl)propanamide (**4e**):

PSK-4 Carbon
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Current Data Parameters
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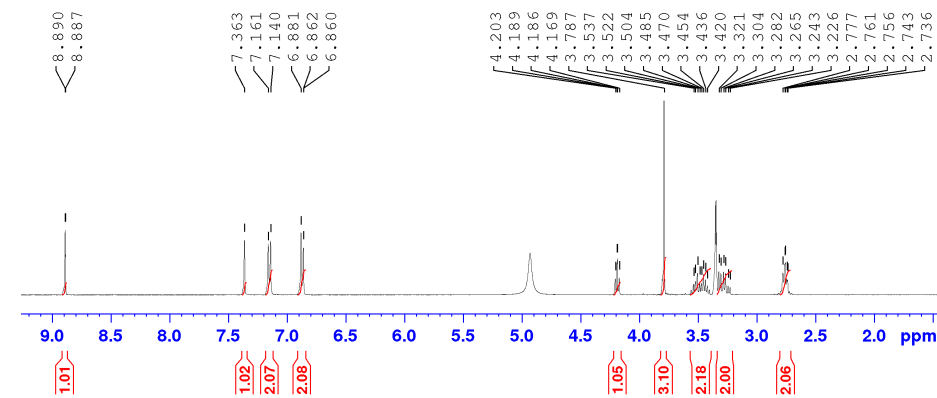
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PLW12    0.24753000 W
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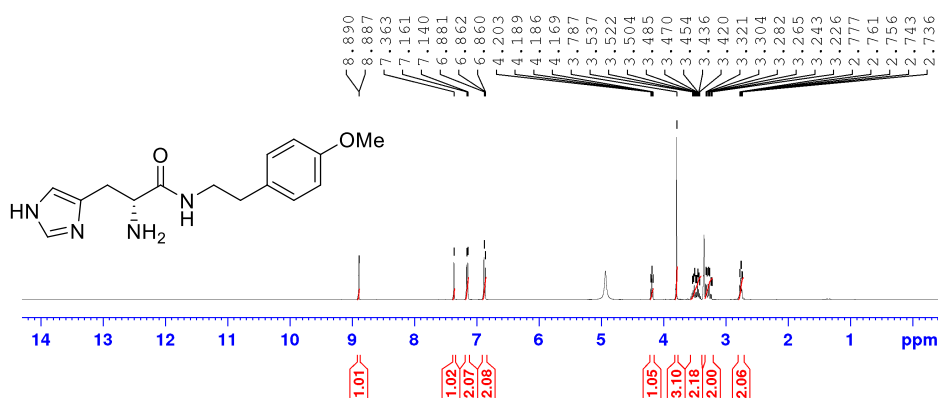
¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxyphenethyl)propanamide (**4f**):

SR 69-1 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 14



Current Data Parameters
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PROCNO 1

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NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266895 Hz
AQ 1.6748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 6.00000000 sec
TD0 1

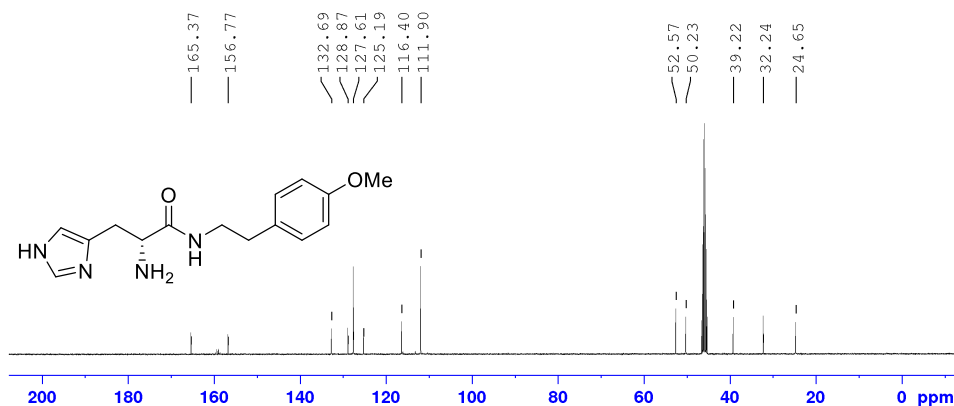


==== CHANNEL f1 =====
SFO1 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2793628 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxyphenethyl)propanamide (**4f**):

SR 69-1 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 14



Current Data Parameters
NAME Nov18-2020-PTLab
EXPNO 170
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201118
Time 20.20
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 512
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TD0 1

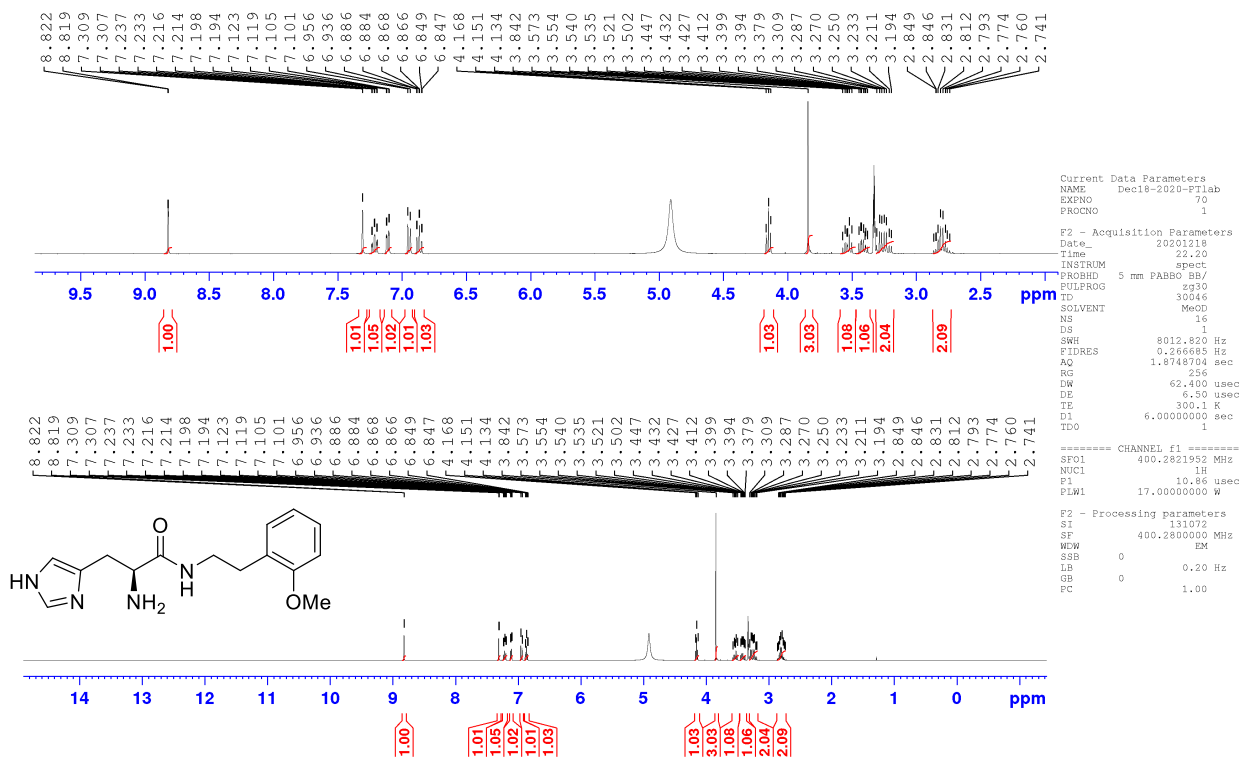
----- CHANNEL f1 -----
SFO1 100.6605506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.00000000 W

----- CHANNEL f2 -----
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 17.00000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

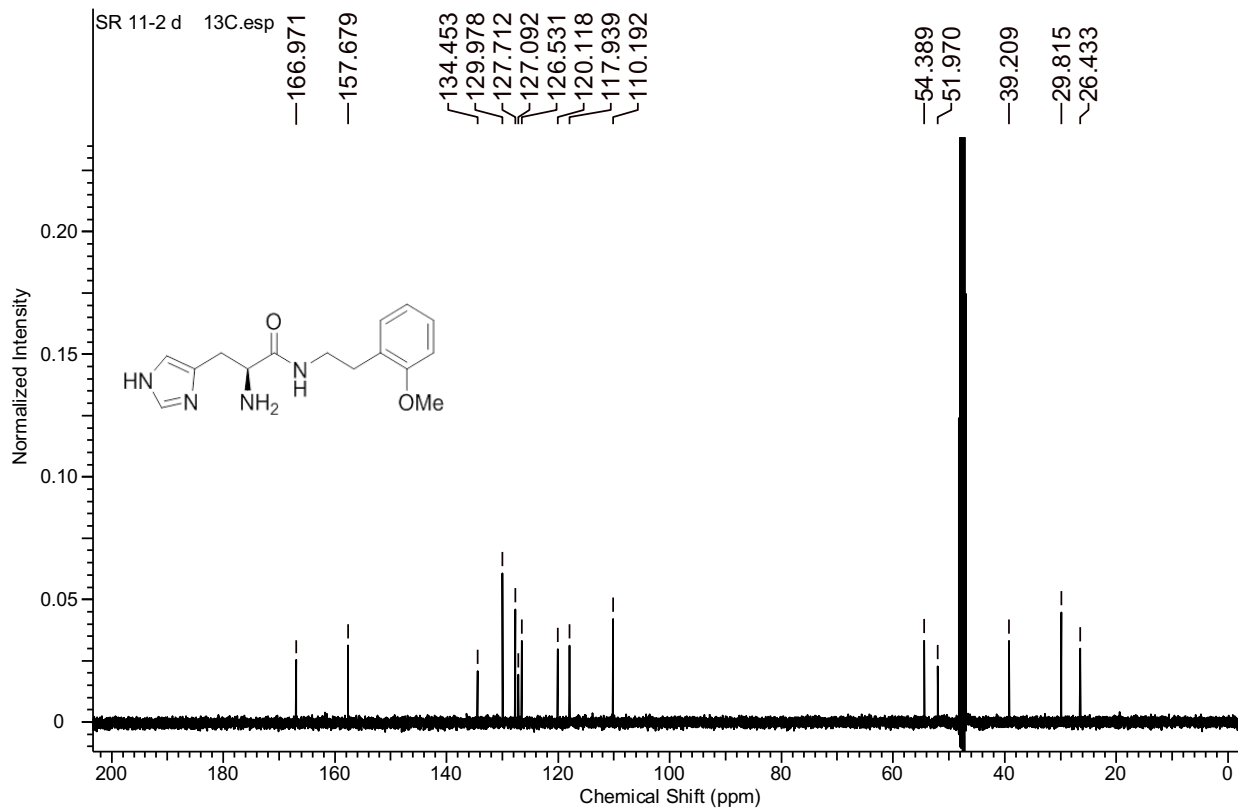
F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-methoxyphenethyl)propanamide (**4g**):

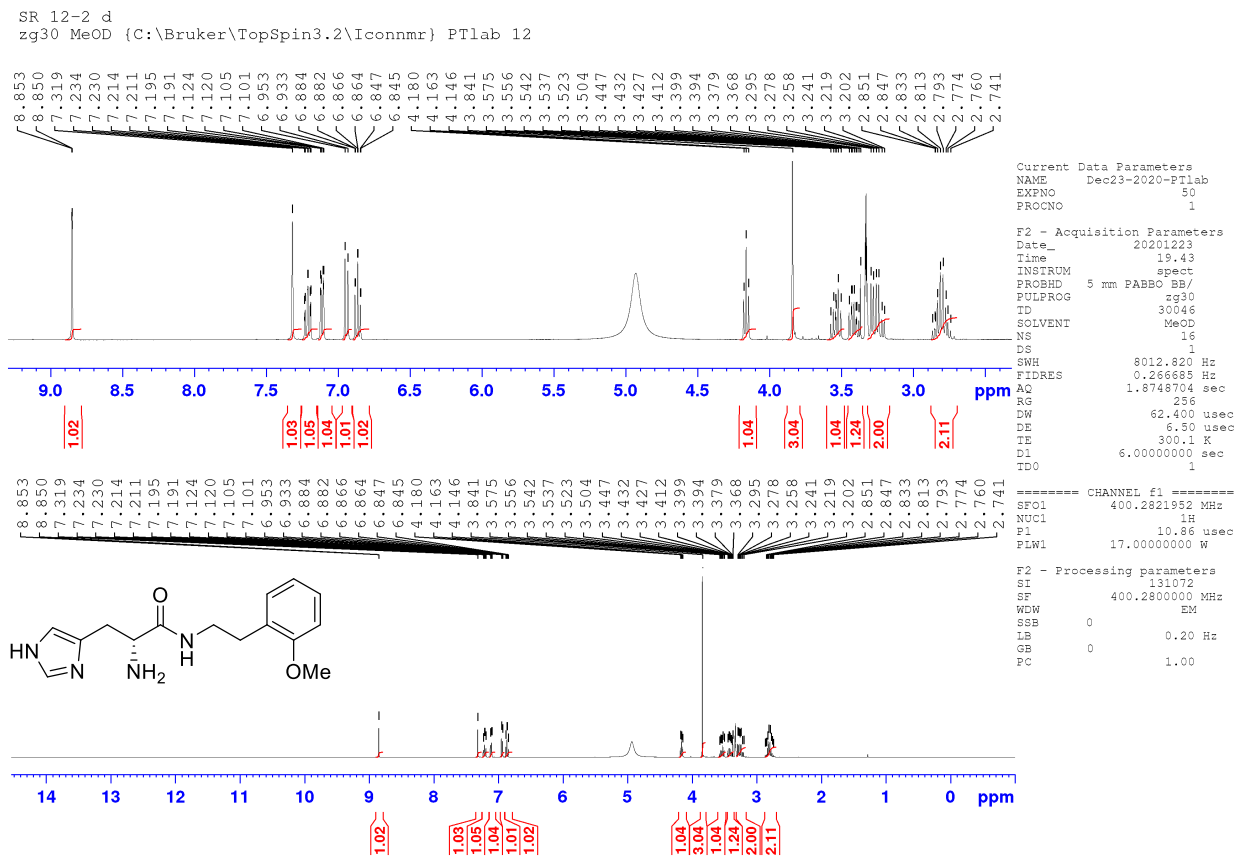
SR 11-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 9



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(2-methoxyphenethyl)propanamide (**4g**):

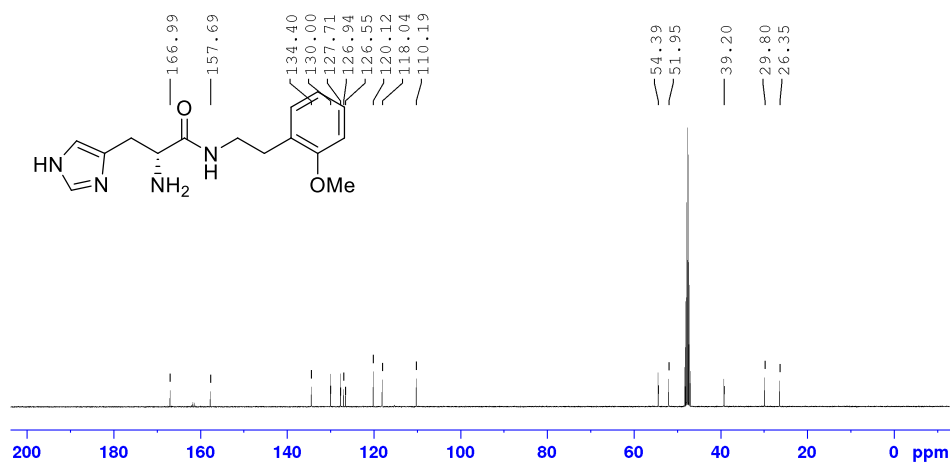


¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-methoxyphenethyl)propanamide (**4h**):



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-methoxyphenethyl)propanamide (**4h**):

SR 12-2 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 12



Current Data Parameters
NAME Dec23-2020-PTLab
EXPNO 60
PROCNO 1

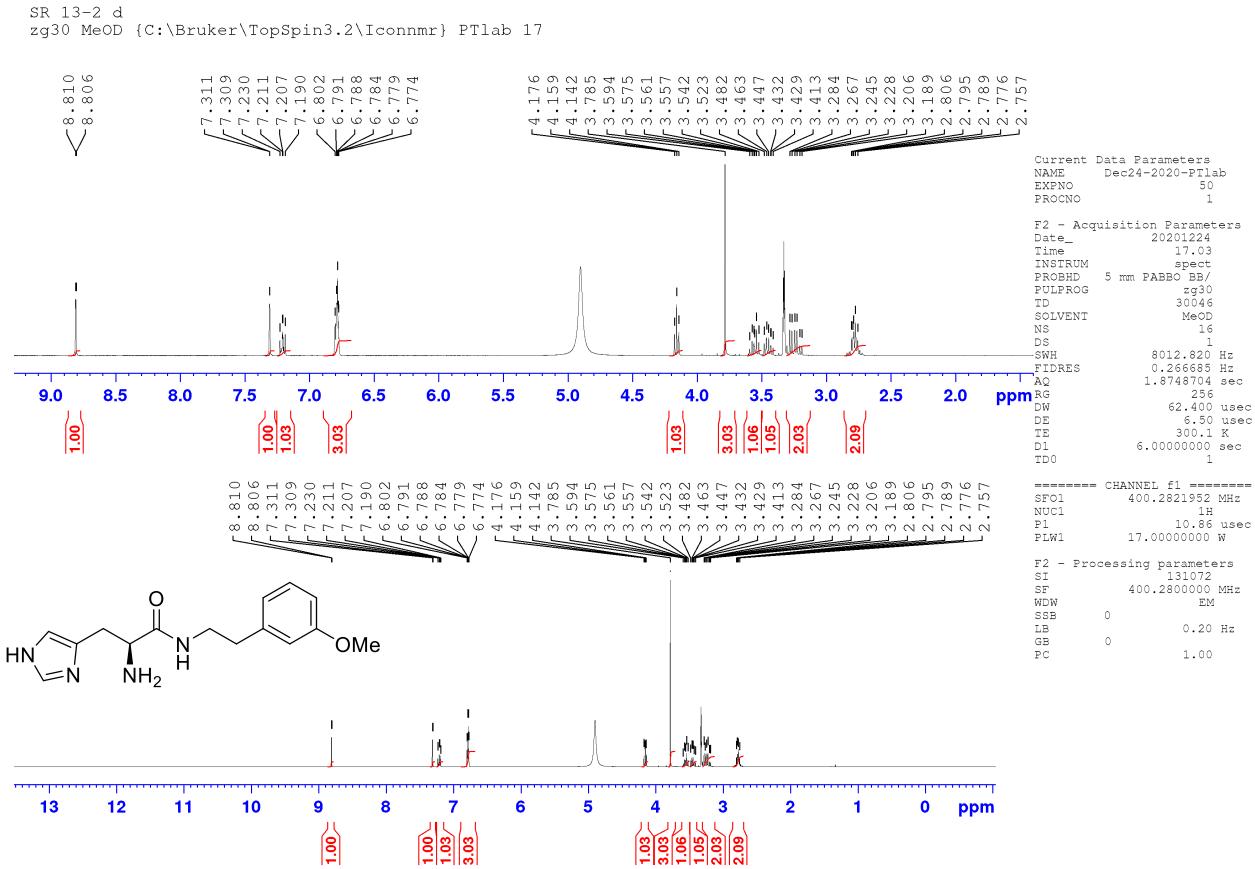
F2 - Acquisition Parameters
Date_ 20201223
Time 20.24
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
ID 65536
SOLVENT MeOD
NS 512
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.0000000 sec
D11 0.0300000 sec
TD 1

===== CHANNEL f1 =====
SFO1 100.6605506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.0000000 W

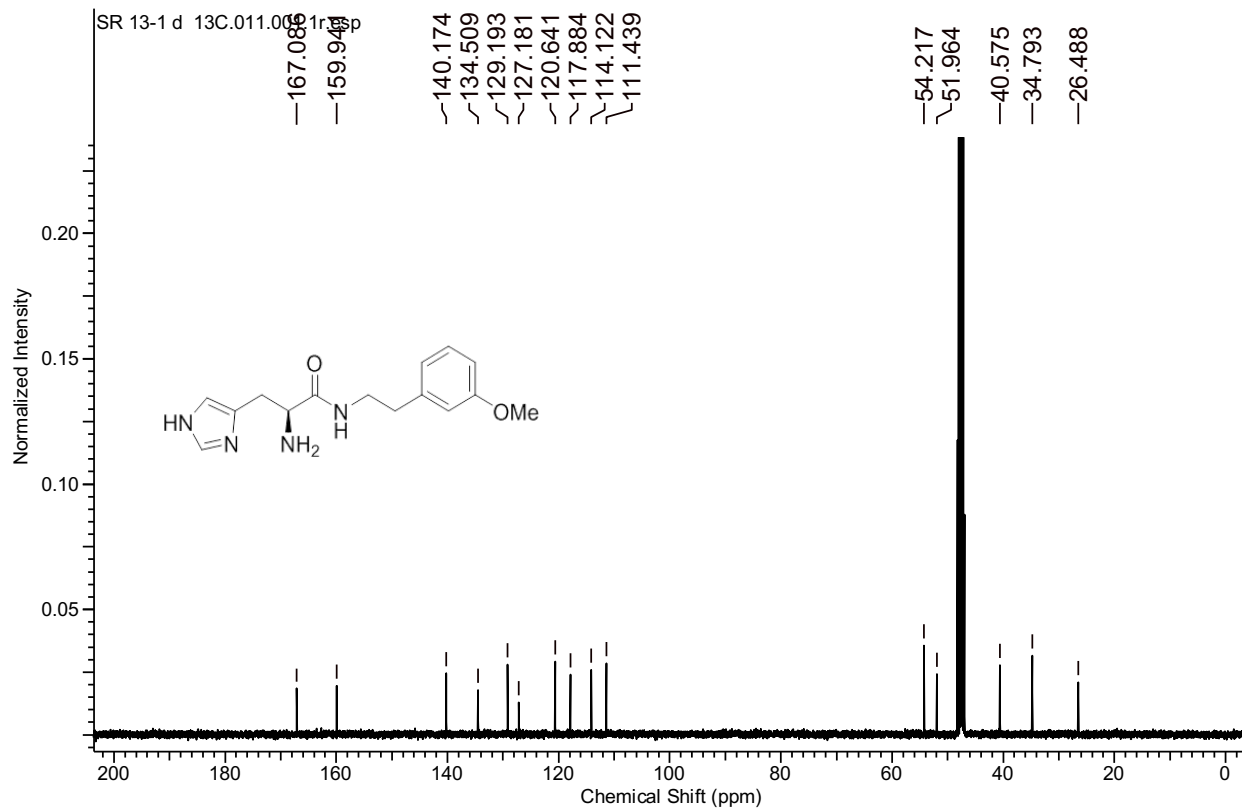
===== CHANNEL f2 =====
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.0000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-methoxyphenethyl)propanamide (**4i**):

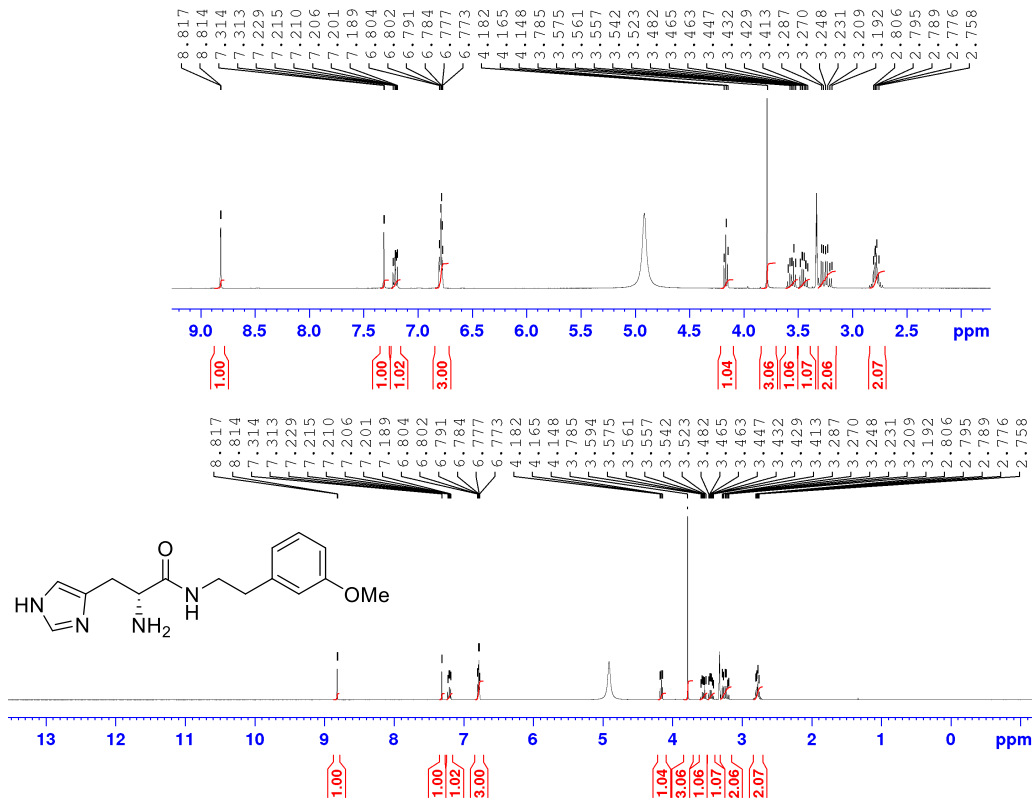


¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(3-methoxyphenethyl)propanamide (**4i**):



¹H NMR (400 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(3-methoxyphenethyl)propanamide (**4j**):

SR 15-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 16



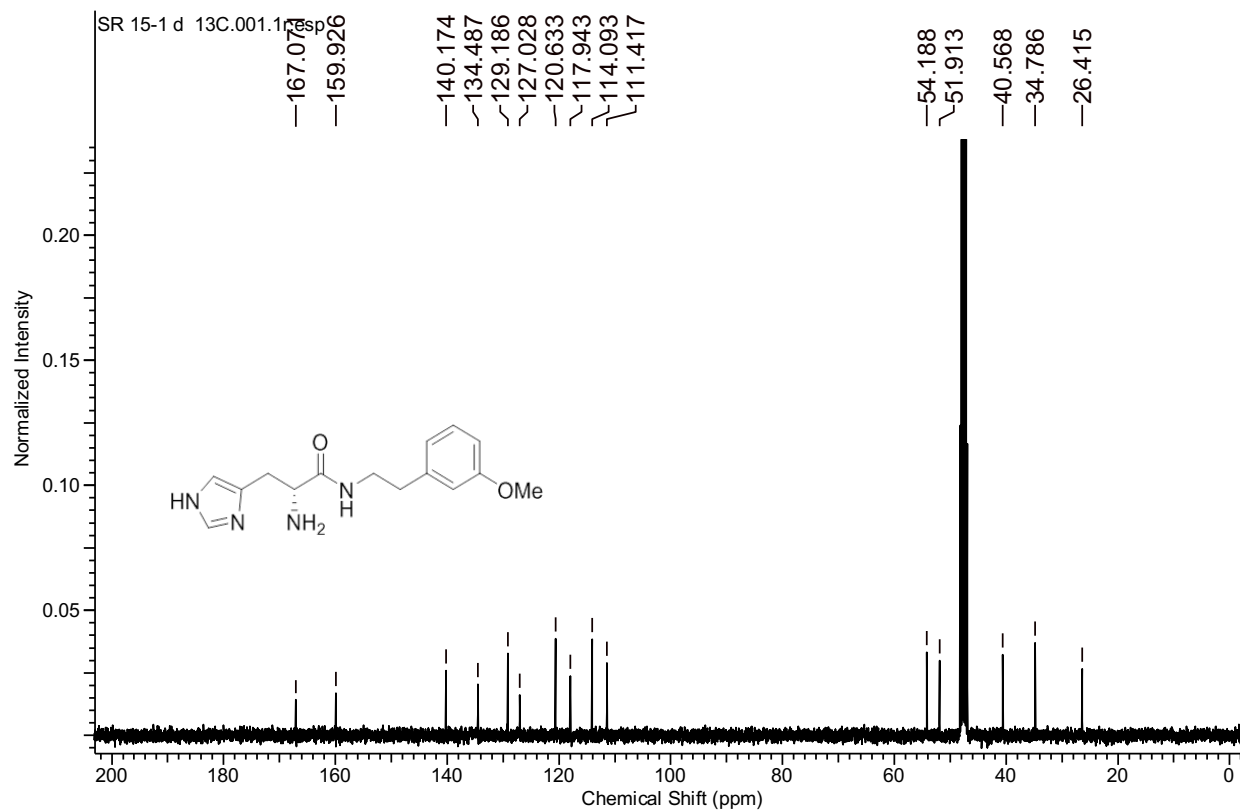
Current Data Parameters
NAME Dec24-2020-PTlab
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201224
Time 15:55
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 6.00000000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 400.2821952 MHz
NUC1 1H
P1 10.86 usec
FLM1 17.00000000 W

F2 - Processing Parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

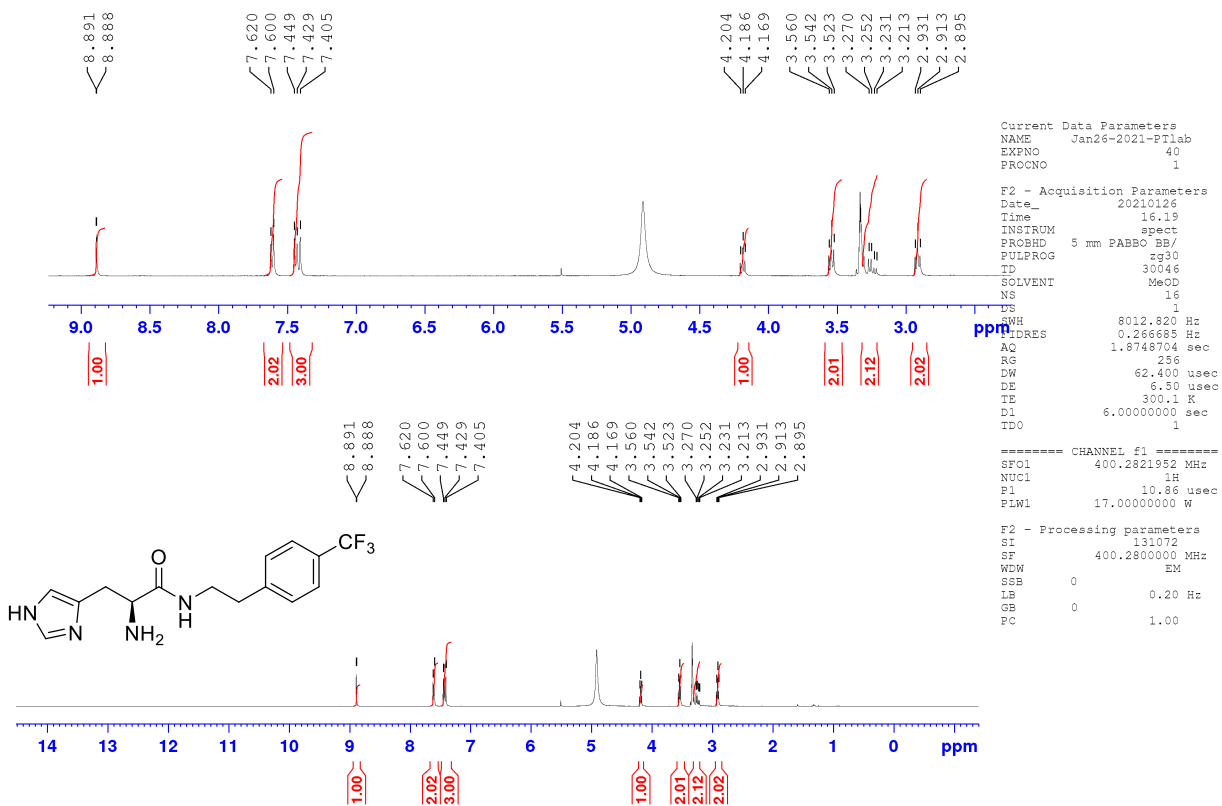
¹³C NMR (100 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(3-methoxyphenethyl)propanamide (**4j**):



¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4 (trifluoromethyl)phenethyl)propanamide

(4k):

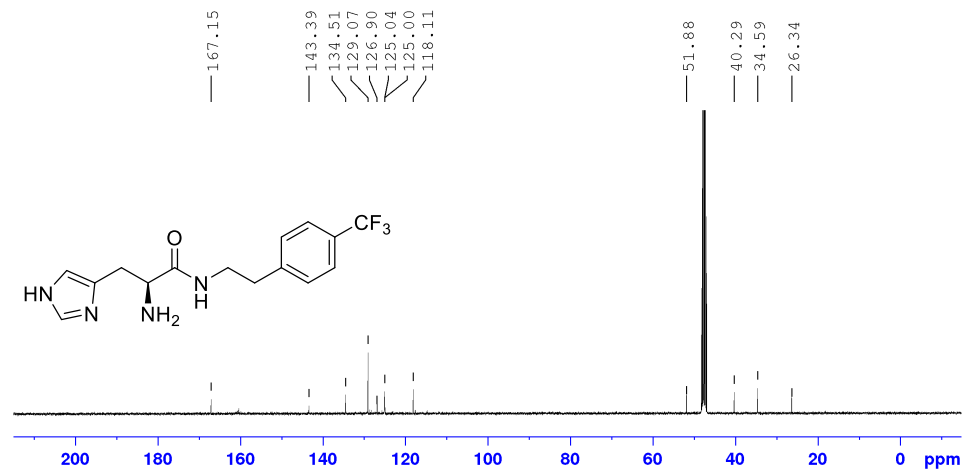
PSK-1-d
zg30 MeOD (C:\Bruker\TopSpin3.2\Iconnmr) PTLab 7



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)phenethyl)propanamide

(4k):

PSK-1-d carbon
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 7



```
Current Data Parameters
NAME      Jan26-2021-PTLab
EXPNO    41
PROCNO   1

F2 - Acquisition Parameters
Date_    20210126
Time     17.12
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       800
DS       4
SWH      24038.461 Hz
FIDRES   0.366798 Hz
AQ       1.3631488 sec
RG       2050
DW       20.800 usec
DE       6.50 usec
TE       300.0 K
D1       2.00000000 sec
D11      0.03000000 sec
TD0      1

===== CHANNEL f1 =====
SFO1    100.6605506 MHz
NUC1    13C
P1      11.00 usec
PLW1    48.00000000 W

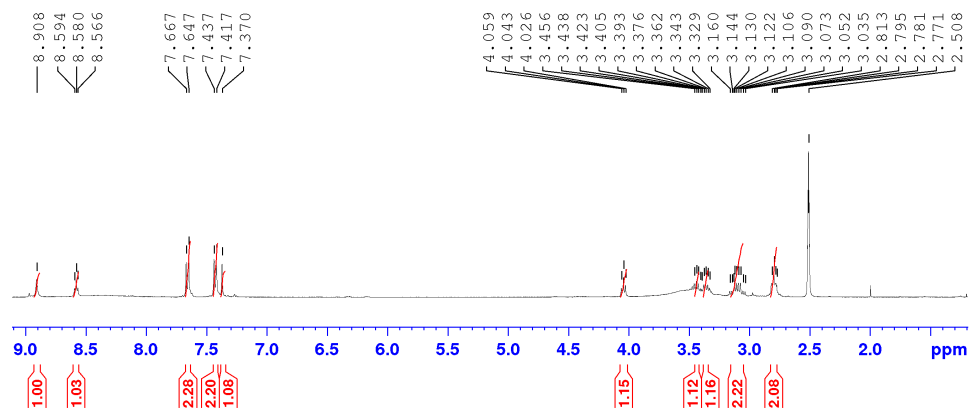
===== CHANNEL f2 =====
SFO2    400.2816011 MHz
NUC2    1H
CPDPRG2 waltz16
PCPD2   90.00 usec
PLW2    17.00000000 W
PLW12   0.24753000 W
PLW13   0.20050000 W

F2 - Processing parameters
SI      32768
SF      100.6504861 MHz
WDW     EM
SBB     0
LB      1.00 Hz
GB      0
PC      1.40
```

¹H NMR (400 MHz, DMSO-d₆), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)phenethyl)propanamide

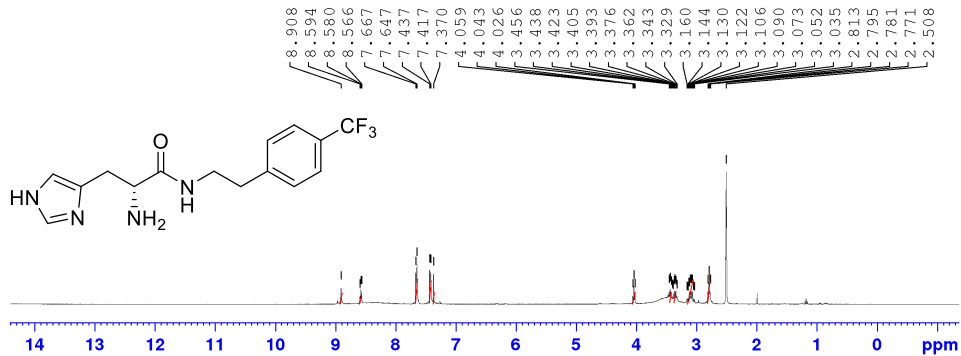
(4):

PSK-2
2g30 DMSO {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 7



Current Data Parameters
NAME Nov18-2020-PTlab
EXPNO 130
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201118
Time 16.34
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
ID 30046
SOLVENT DMSO
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 236
DW 62.400 usec
DE 6.50 usec
TE 300.2 K
D1 6.00000000 sec
TDO 1



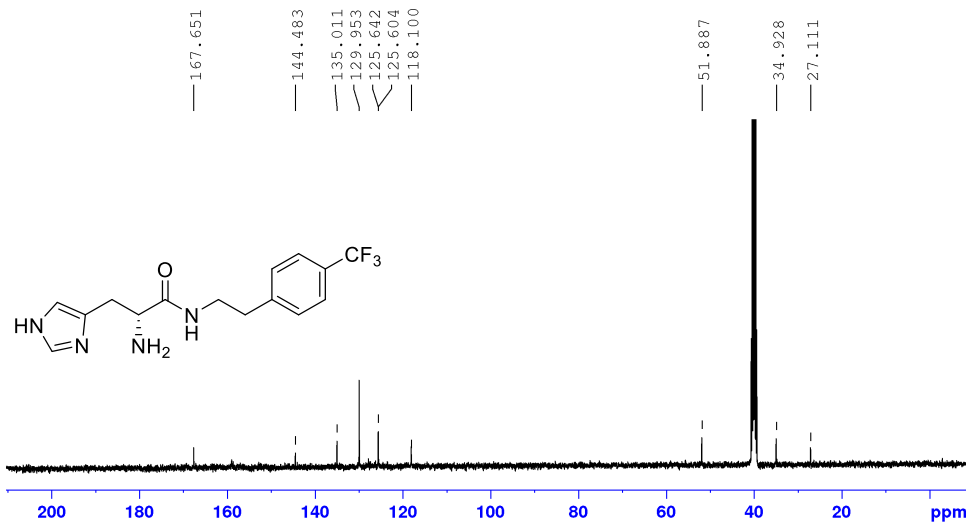
===== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

¹³C NMR (100 MHz, DMSO-d₆), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)phenethyl)propanamide

(4I):

PSK-2 Carbon
zgpg30 DMSO {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 7



```
Current Data Parameters
NAME      Nov18-2020-PrLab
EXPNO    131
PROCNO   1

F2 - Acquisition Parameters
Date_    20201118
Time     17.24
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       32768
SOLVENT  DMSO
NS       1024
DS       4
SWH      22058.824 Hz
FIDRES   0.673182 Hz
AQ       0.7427413 sec
RG       1520
DW       22.667 usec
DE       6.50 usec
TE       300.1 K
D1       1.50000000 sec
D11      0.03000000 sec
TDO      1

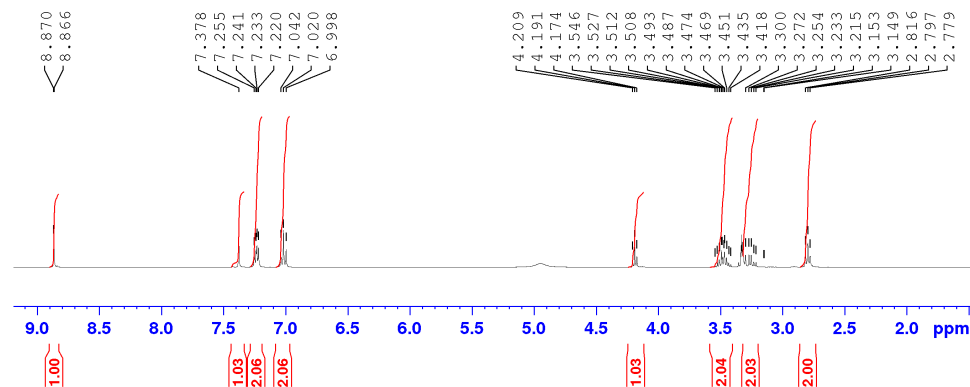
===== CHANNEL f1 =====
SFO1    100.6606368 MHz
NUC1     13C
P1      11.00 usec
PLW1    48.00000000 W

===== CHANNEL f2 =====
SFO2    400.2818195 MHz
NUC2     1H
CPDPRG2  waltz16
PCPD2    90.00 usec
PLW2    17.00000000 W
PLW12   0.24753000 W
PLW13   0.20050000 W

F2 - Processing parameters
SI       16384
SF       100.6504861 MHz
WDW      EM
SSB      0
LB       1.50 Hz
GB       0
PC       1.40
```

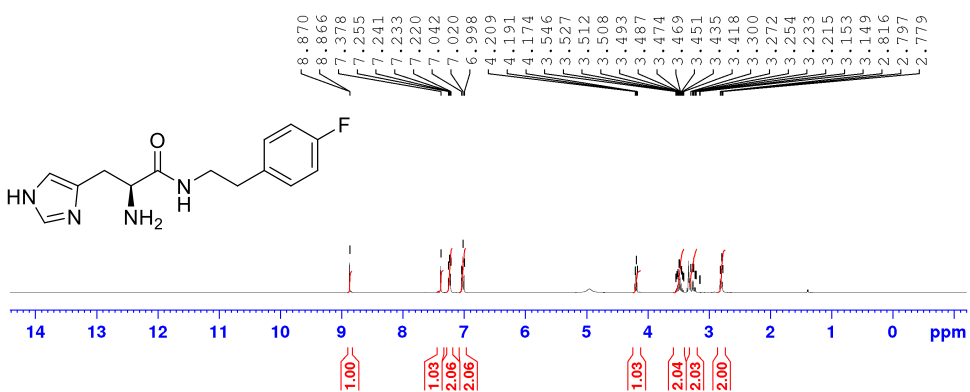

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-N-(4-fluorophenethyl)-3-(1H-imidazol-4-yl)propanamide (**4m**):

KS-49-d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 2



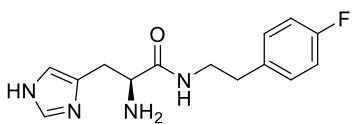
Current Data Parameters
NAME Jan30-2021-PTLab
EXPNO 60
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210130
Time 13.52
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266665 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 6.00000000 sec
TDO 1



===== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-N-(4-fluorophenethyl)-3-(1H-imidazol-4-yl)propanamide (**4m**):

KS-49-d repeat carbon
 C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 2



```

Current Data Parameters
NAME      Jan30-2021-PTLab
EXPNO     61
PROCNO    1

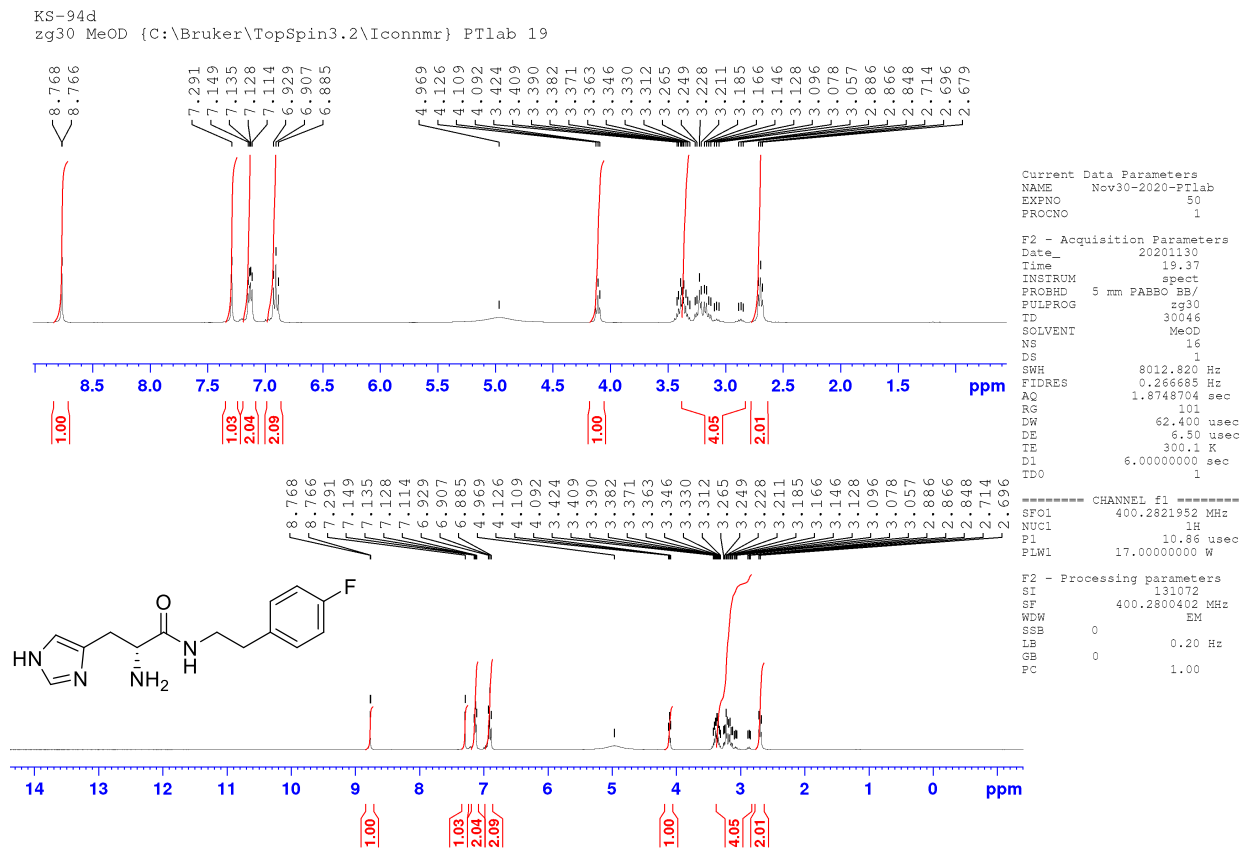
F2 - Acquisition Parameters
Date_     20210130
Time      14.44
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
TD         65536
SOLVENT   MeOD
NS         800
DS         4
SWH       24038.461 Hz
FIDRES    0.366798 Hz
AQ         1.3691488 sec
RG         2050
DW         20.800 usec
DE         6.50 usec
TE         300.0 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1

===== CHANNEL f1 =====
SFO1      100.6605506 MHz
NUC1       13C
P1         11.00 usec
PLW1      48.00000000 W

===== CHANNEL f2 =====
SFO2      400.2816011 MHz
NUC2       1H
CPDPRG[2]  waltz16
PCPD2     90.00 usec
PLW2      17.00000000 W
PLWL2     0.24750000 W
PLWL3     0.20050000 W

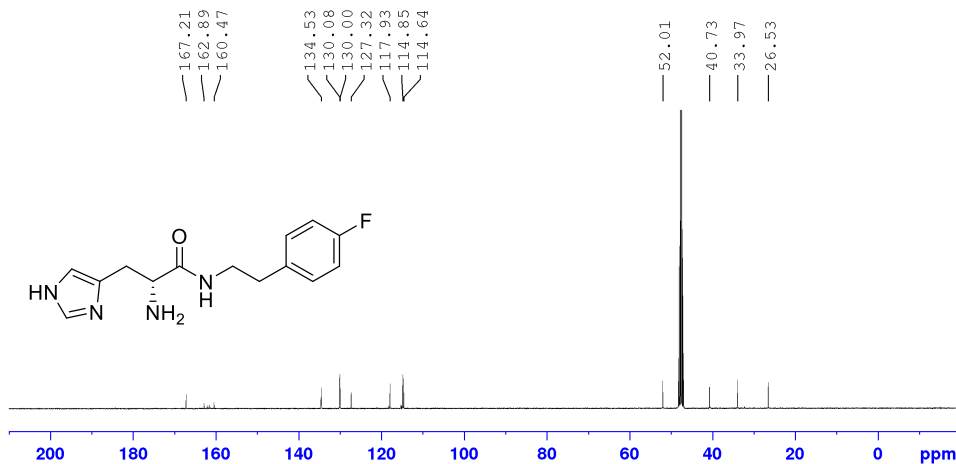
F2 - Processing parameters
SI         32768
SF         100.6504861 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
  
```

¹H NMR (400 MHz, MeOH-d₄), (*R*)-2-amino-*N*-(4-fluorophenethyl)-3-(1*H*-imidazol-4-yl)propanamide (**4n**):



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-N-(4-fluorophenethyl)-3-(1H-imidazol-4-yl)propanamide (**4n**):

KS-94-d carbon
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconmr} PTLab 12



Current Data Parameters
NAME Jan29-2021-PTLab
EXPNO 111
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210129
Time 18.10
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 800
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
D1 2.0000000 sec
D11 0.0300000 sec
TDO 1

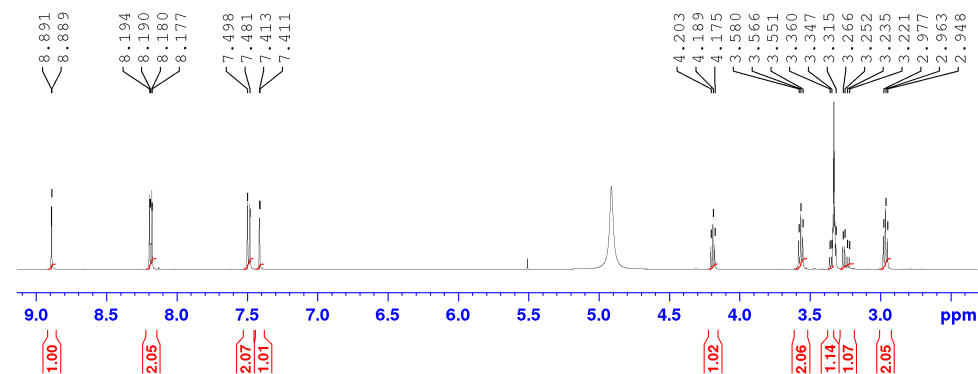
----- CHANNEL f1 -----
SFO1 100.6605506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.0000000 W

----- CHANNEL f2 -----
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.0000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-nitrophenethyl)propanamide (**4o**):

SR 31-1 d



```

Current Data Parameters
NAME      Nov14-2019-PIlab
EXPNO    20
PROCNO    1

F2 - Acquisition Parameters
Date_    20191114
Time     11.26
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zg30
TD        65536
SOLVENT  MeOD
NS        16
DS        2
SWH       9973.404 Hz
FIDRES    0.152162 Hz
AQ        3.285382 sec
RG        152.34
DE        50.133 usec
TE        298.0 K
D1        6.0000000 sec
TD0       1

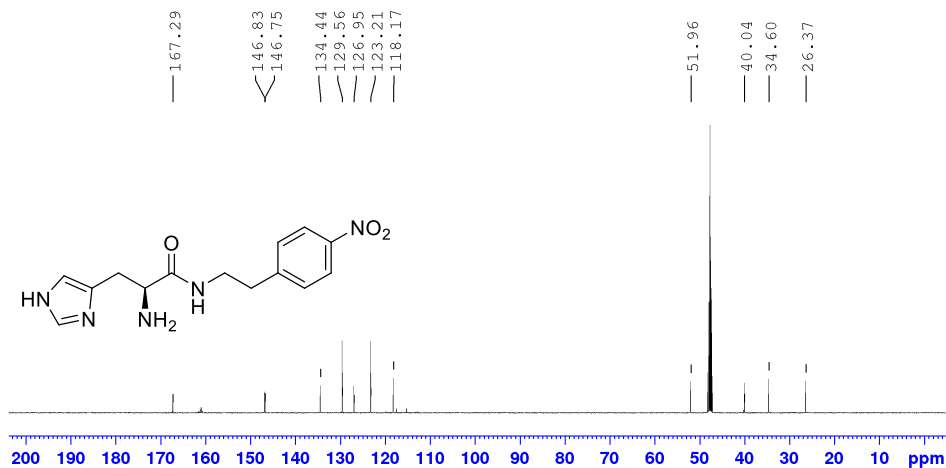
===== CHANNEL f1 =====
SF01     499.2621482 MHz
NUC1      1H
P1        10.00 usec
PLW1     17.00000000 W

F2 - Processing parameters
SI        65536
SF        499.2590651 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
    
```



¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-nitrophenethyl)propanamide (**4o**):

SR 31-1 d 13C



Current Data Parameters
NAME Nov15-2019-PTlab
EXPNO 40
PROCNO 1

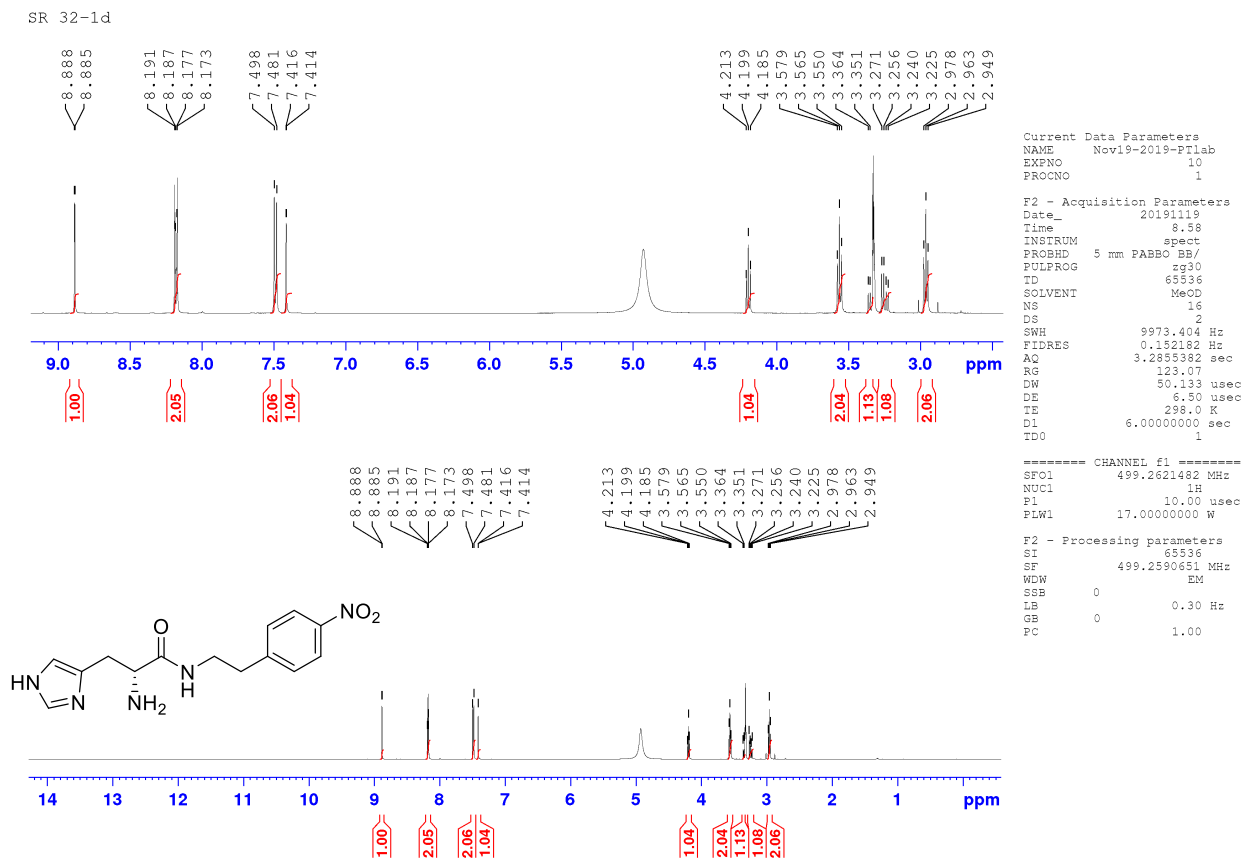
F2 - Acquisition Parameters
Date_ 20191115
Time 20.25
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 191.52
DW 16.800 usec
DE 10.00 usec
TE 300.0 K
D1 2.00000000 sec
D11 0.03000000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 125.5513451 MHz
NUC1 13C
P1 10.00 usec
PLW1 71.00000000 W

===== CHANNEL f2 =====
SFO2 499.2610621 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 17.00000000 W
PLW12 0.26563001 W
PLW13 0.17000000 W

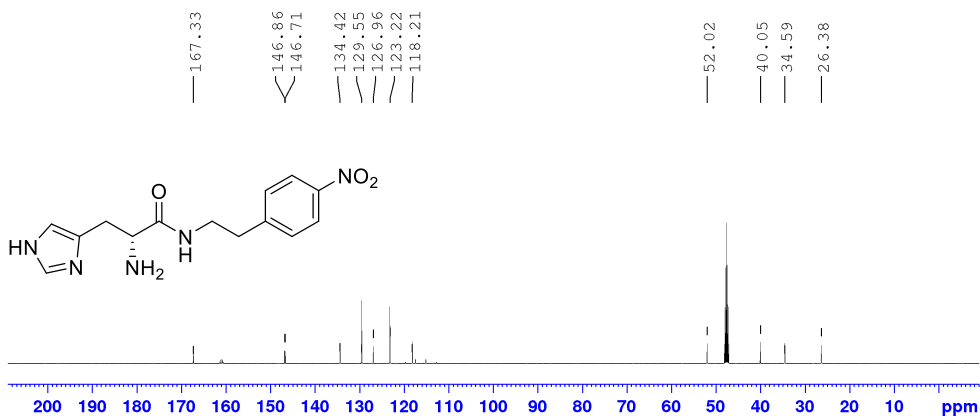
F2 - Processing parameters
SI 32768
SF 125.5387918 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (500 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-nitrophenethyl)propanamide (**4p**):



¹³C NMR (126 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-nitrophenethyl)propanamide (**4p**):

SR 32-1 d 13C



```
Current Data Parameters
NAME      Nov20-2019-PTlab
EXPNO     50
PROCNO    1

F2 - Acquisition Parameters
Date_     20191120
Time      17.06
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
ID         65536
SOLVENT   MeOD
NS         512
DS         4
SWH        29761.904 Hz
FIDRES     0.454131 Hz
AQ         1.1010048 sec
RG         191.52
DW         16.800 usec
DE         10.00 usec
TE         300.0 K
D1         2.0000000 sec
D11        0.0300000 sec
TD0        1

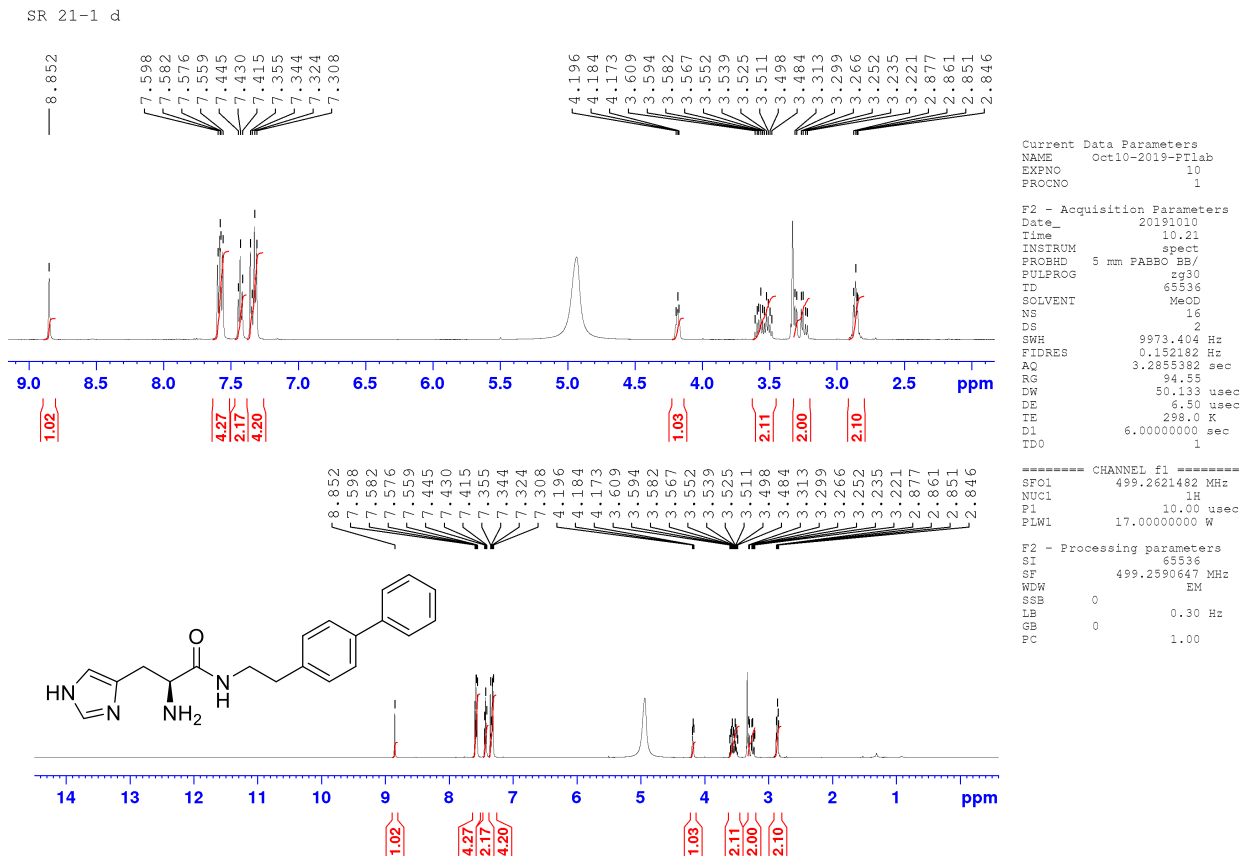
===== CHANNEL f1 =====
SFO1      125.5513451 MHz
NUC1       13C
P1         10.00 usec
PLW1       71.00000000 W

===== CHANNEL f2 =====
SFO2      499.2610621 MHz
NUC2       1H
CPDPRG[2] waltz16
PCPD2     80.00 usec
PLW2       17.00000000 W
PLW12     0.26563001 W
PLW13     0.17000000 W

F2 - Processing parameters
SI         32768
SF         125.5387918 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```


¹H NMR (500 MHz, MeOH-d₄), (S)-N-(2-([1,1'-biphenyl]-4-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

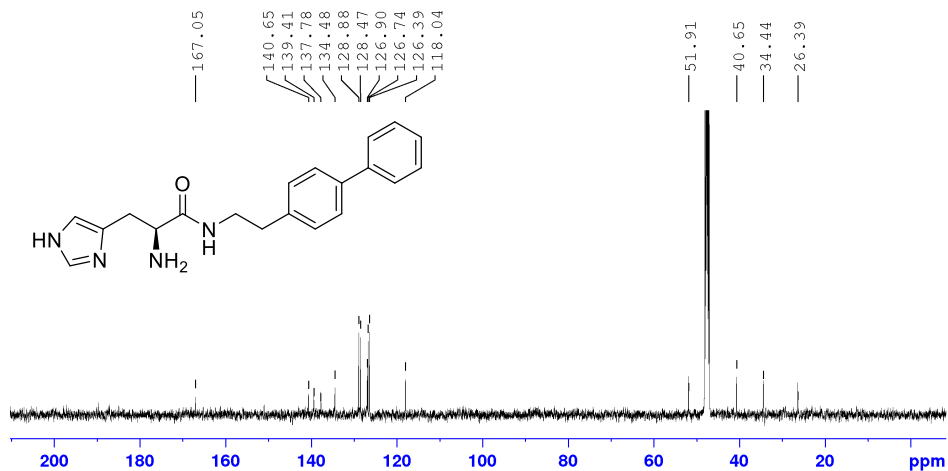
(4q):



¹³C NMR (126 MHz, MeOH-d₄), (S)-N-(2-([1,1'-biphenyl]-4-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

(4q):

SR 21-1 d 13C



```
Current Data Parameters
NAME      Oct16-2019-FTLab
EXPNO     30
PROCNO    1

F2 - Acquisition Parameters
Date_     20191016
Time      15.14
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
TD        65536
SOLVENT   MeOD
NS         512
DS         4
SWH        29761.904 Hz
FIDRES     0.454131 Hz
AQ         1.1010048 sec
RG         191.52
DW         16.800 usec
DE         10.00 usec
TE         300.0 K
D1         2.0000000 sec
D11        0.0300000 sec
TDO        1

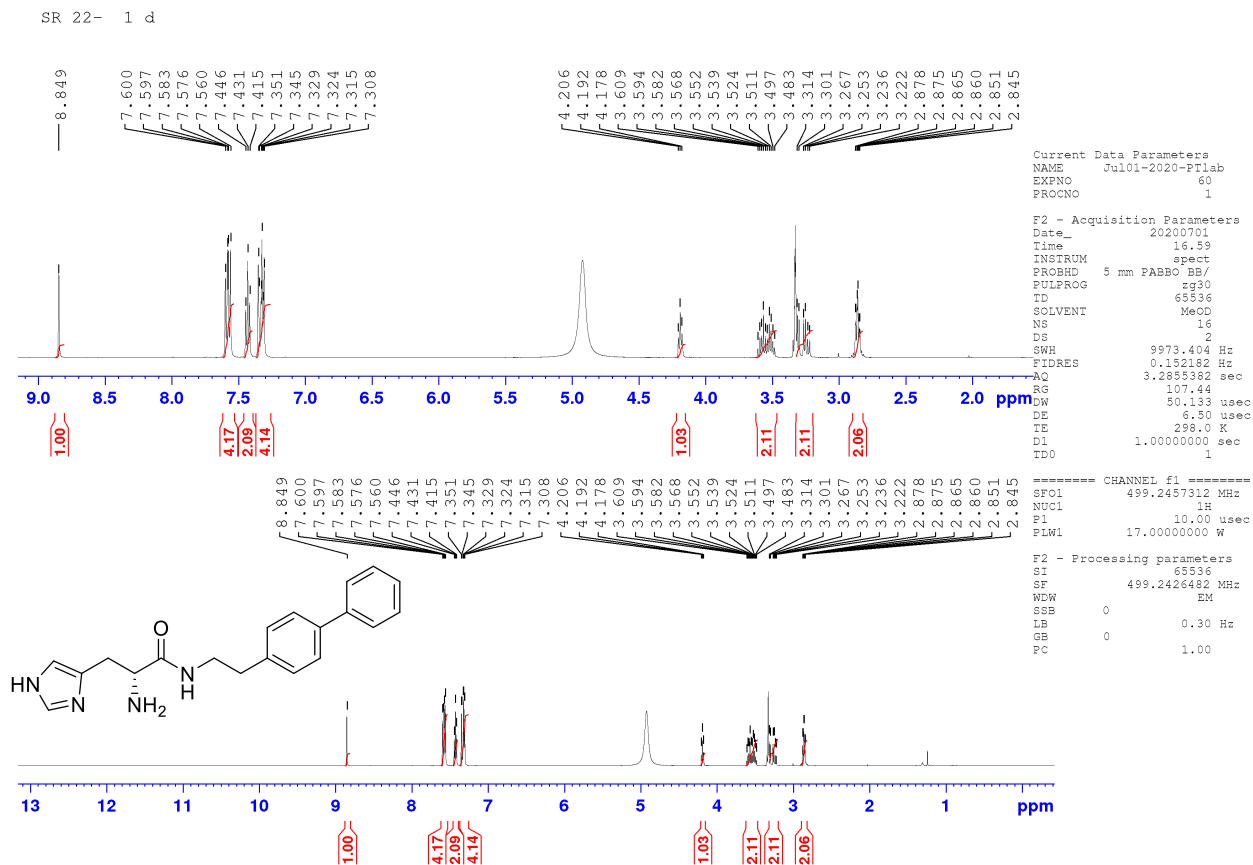
===== CHANNEL f1 =====
SFO1      125.5513451 MHz
NUC1       13C
P1         10.00 usec
PLW1       71.00000000 W

===== CHANNEL f2 =====
SFO2      499.2610621 MHz
NUC2       1H
CPDPRG2   waltz16
PCPD2      80.00 usec
PLW2       17.00000000 W
PLW12      0.26563001 W
PLW13      0.17000000 W

F2 - Processing parameters
SI         32768
SF         125.5387918 MHz
WDW        EM
SSB        0
LB         3.00 Hz
GB         0
PC         1.40
```

¹H NMR (500 MHz, MeOH-d₄), (*R*)-*N*-(2-([1,1'-biphenyl]-4-yl)ethyl)-2-amino-3-(1*H*-imidazol-4-yl)propanamide

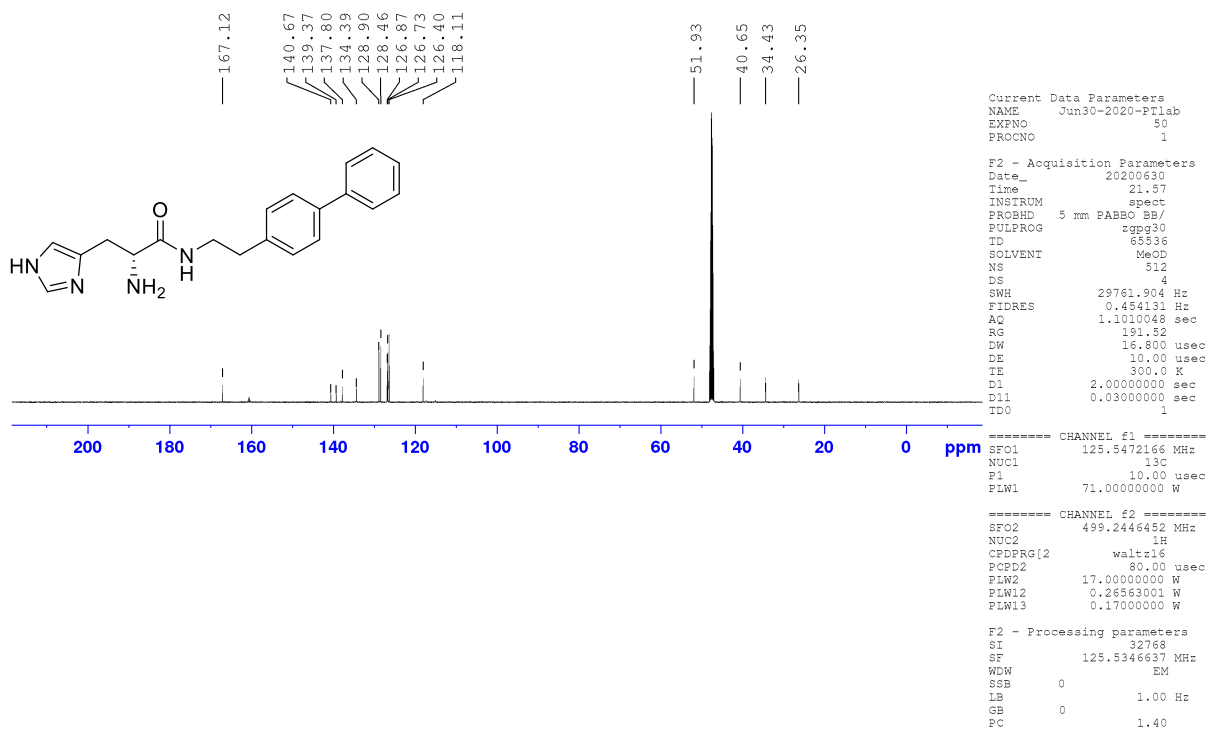
(4r):



¹³C NMR (126 MHz, MeOH-d₄), (R)-N-(2-([1,1'-biphenyl]-4-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

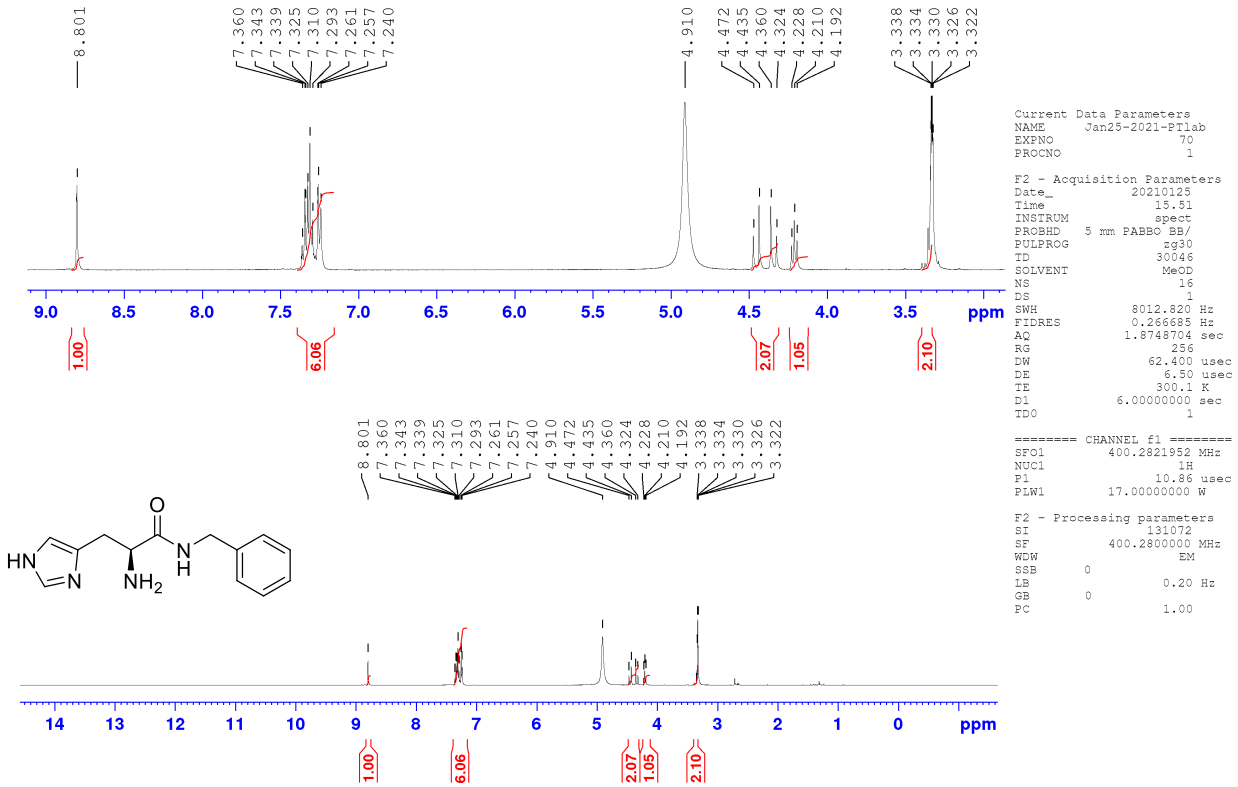
(4r):

SR 22-1 d 13C



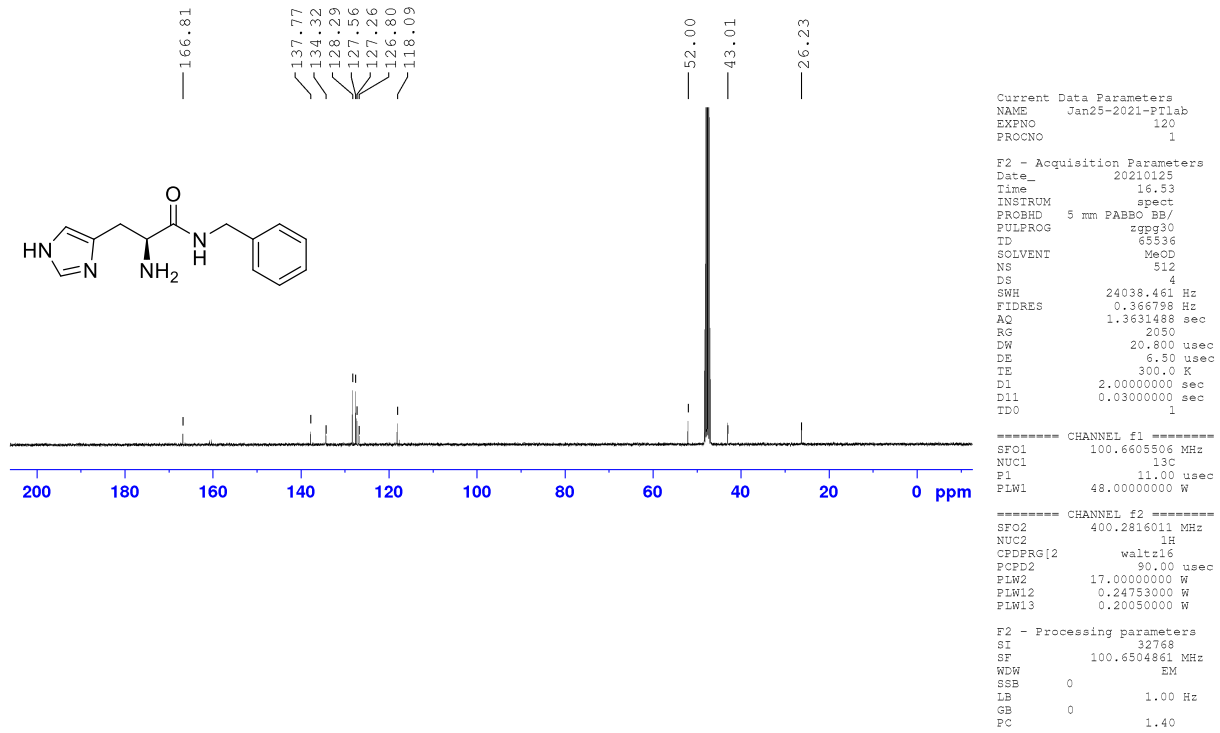
¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-N-benzyl-3-(1H-imidazol-4-yl)propanamide (**5a**):

KS-100-d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 20



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-N-benzyl-3-(1H-imidazol-4-yl)propanamide (**5a**):

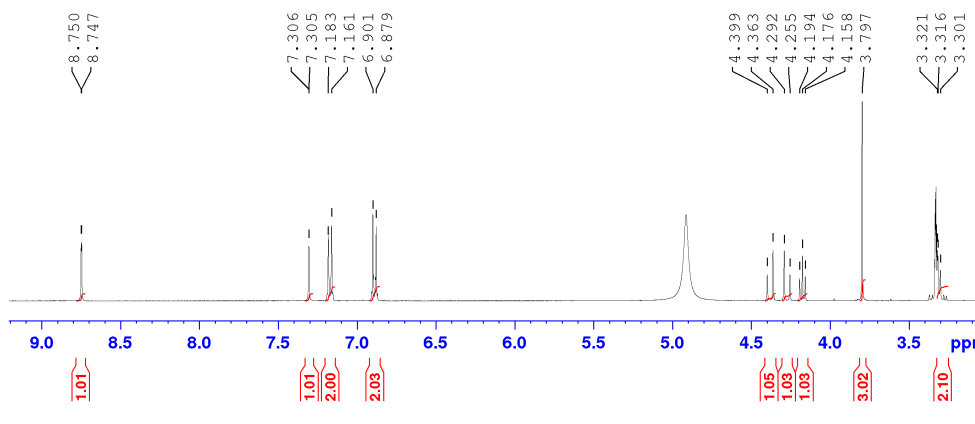
KS-100-d Carbon
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 1



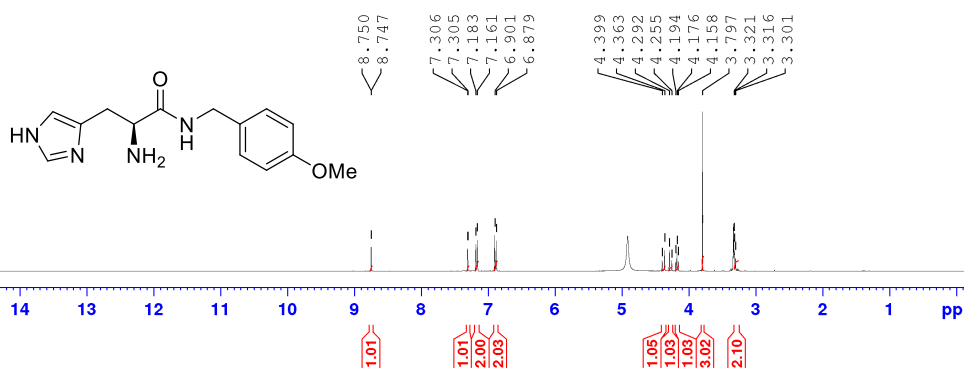
¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-3l4-imidazol-4-yl)-N-(4-methoxybenzyl)propanamide

(5b):

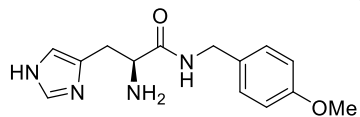
SR 20-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 15



Current Data Parameters
NAME Dec28-2020-Flab
EXPNO 140
PROCNO 1
F2 - Acquisition Parameters
Date_ 20201228
Time 20:22
INSTRUM spect
PROBHD 5 mm F4BBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 6.00000000 sec
TDO 1

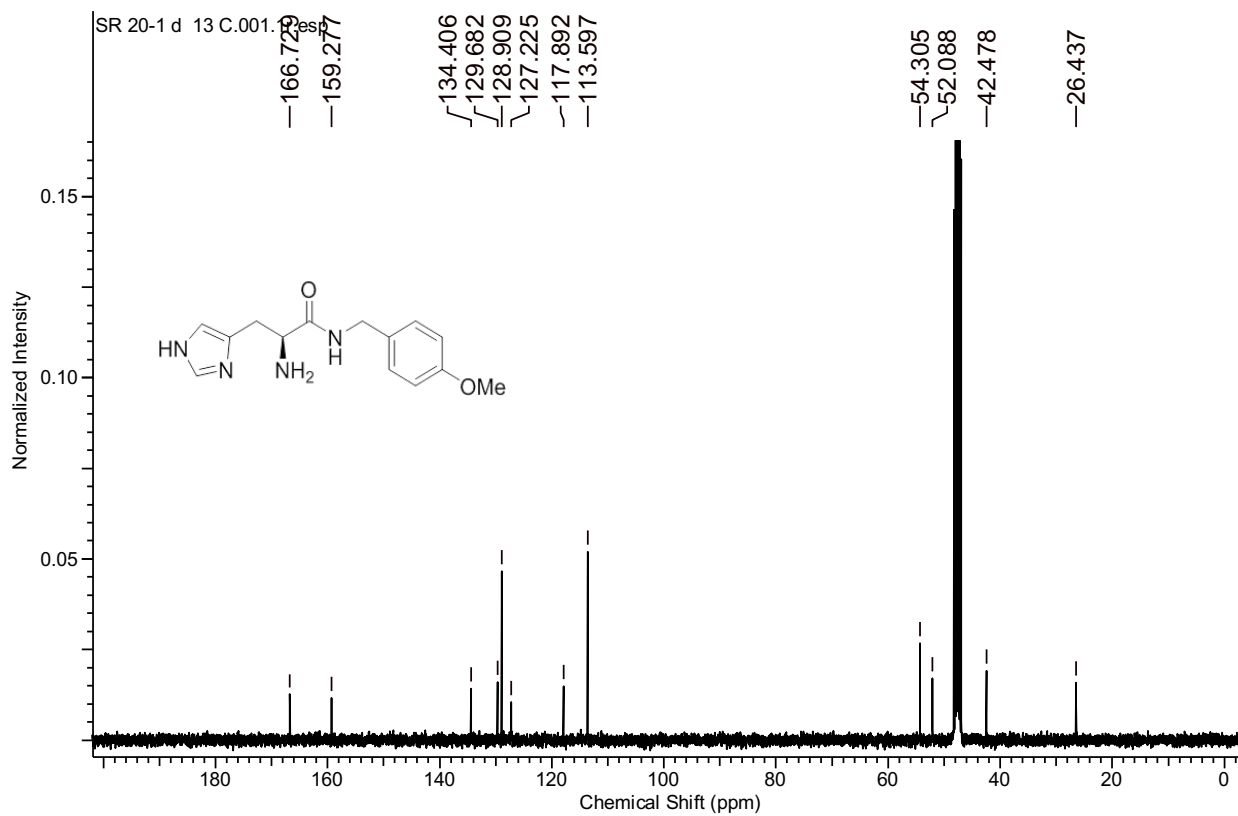


----- CHANNEL f1 -----
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W
F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



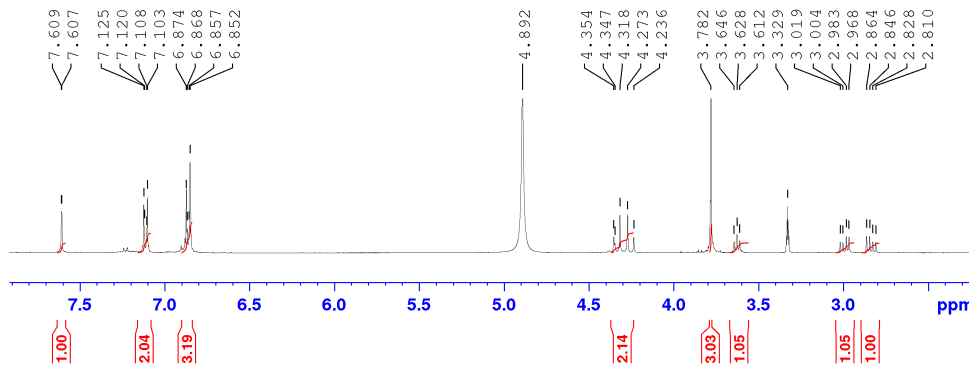
¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1*H*-3*H*-imidazol-4-yl)-*N*-(4-methoxybenzyl)propanamide

(5b):



¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxybenzyl)propanamide(**5c**):

PSK-12
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 9

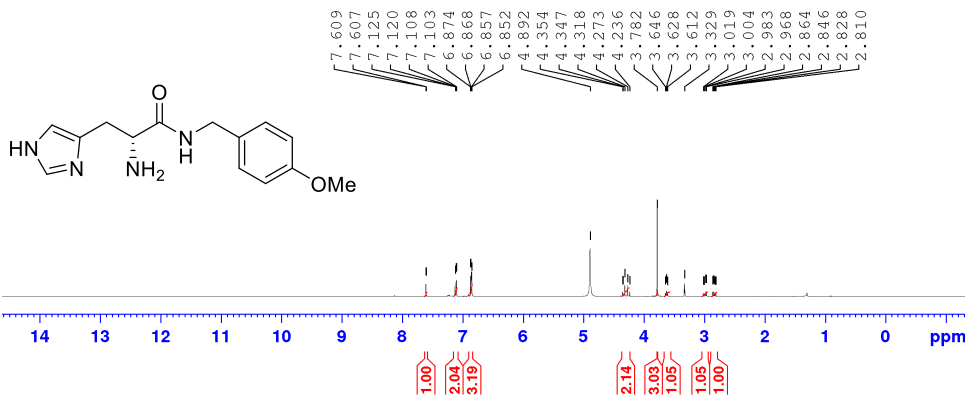


Current Data Parameters
NAME Nov17-2020-PTLab
EXPNO 90
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201117
Time 14.30
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 12
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 114
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 6.00000000 sec
TDO 1

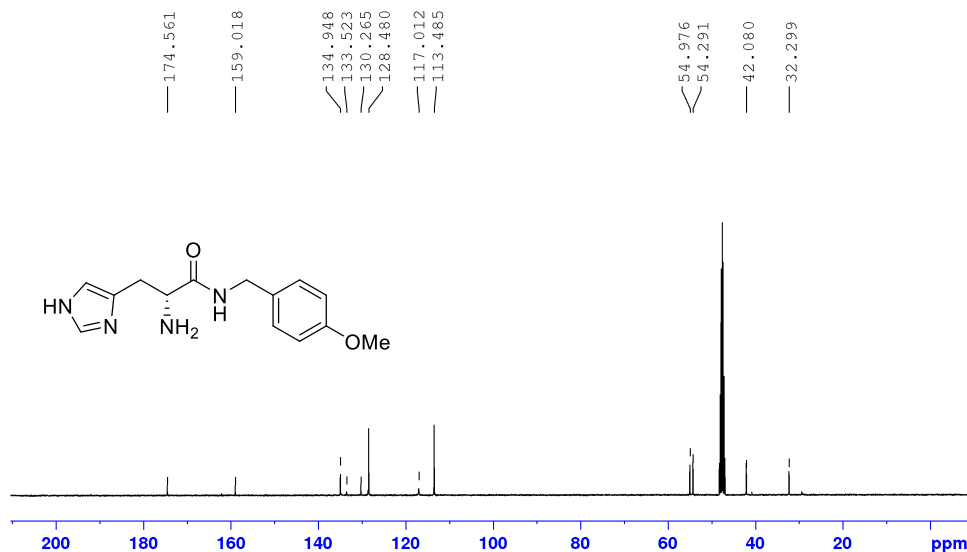
===== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxybenzyl)propanamide(5c):

PSK-12
zgpg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 9



Current Data Parameters
NAME Nov17-2020-PTLab
EXPNO 150
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201117
Time 18.13
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT MeOD
NS 1024
DS 4
SWH 22058.824 Hz
FIDRES 0.673182 Hz
AQ 0.7427413 sec
RG 1620
DW 22.667 usec
DE 6.50 usec
TE 300.1 K
D1 1.5000000 sec
D11 0.0300000 sec
TD0 1

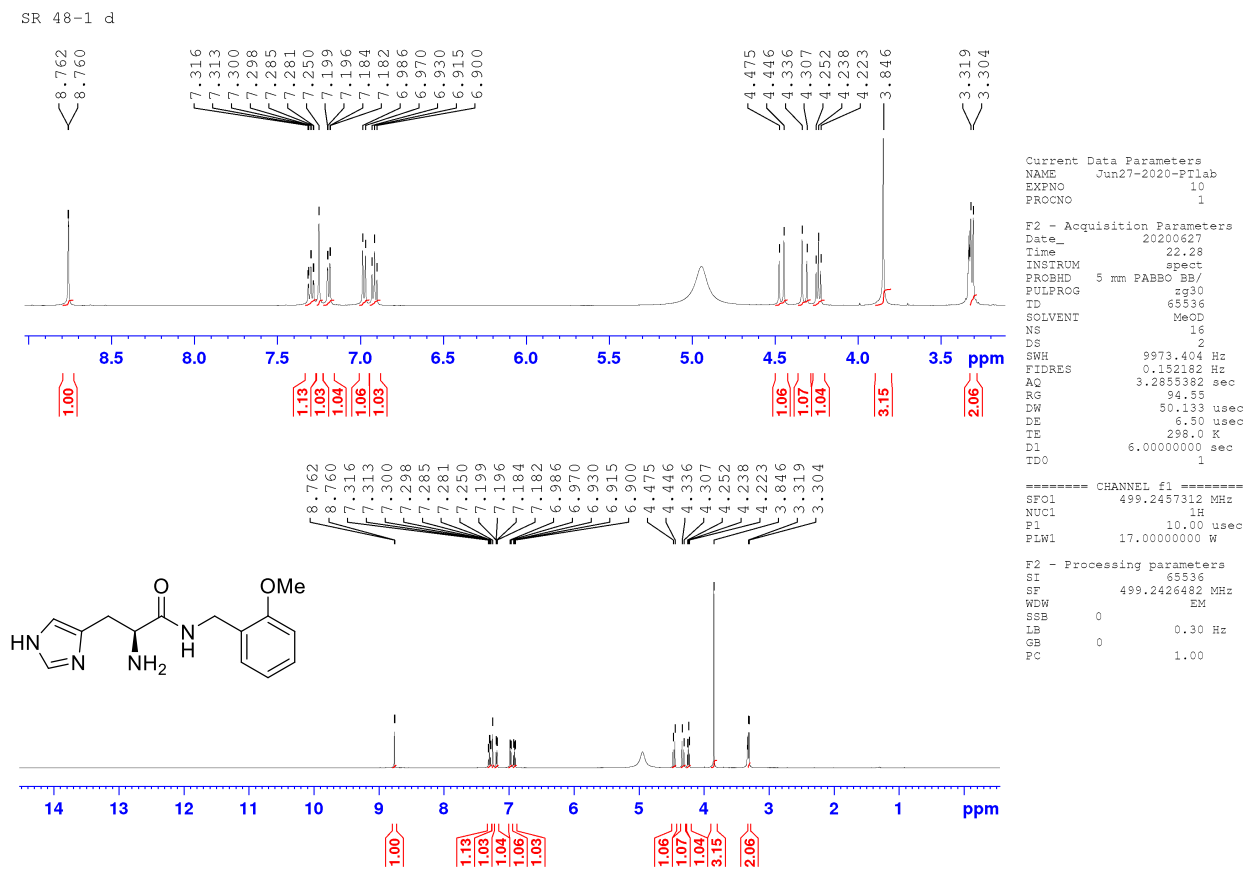
==== CHANNEL f1 =====
SFO1 100.6606368 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.00000000 W

==== CHANNEL f2 =====
SFO2 400.2818195 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.00000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 16384
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
EC 1.40

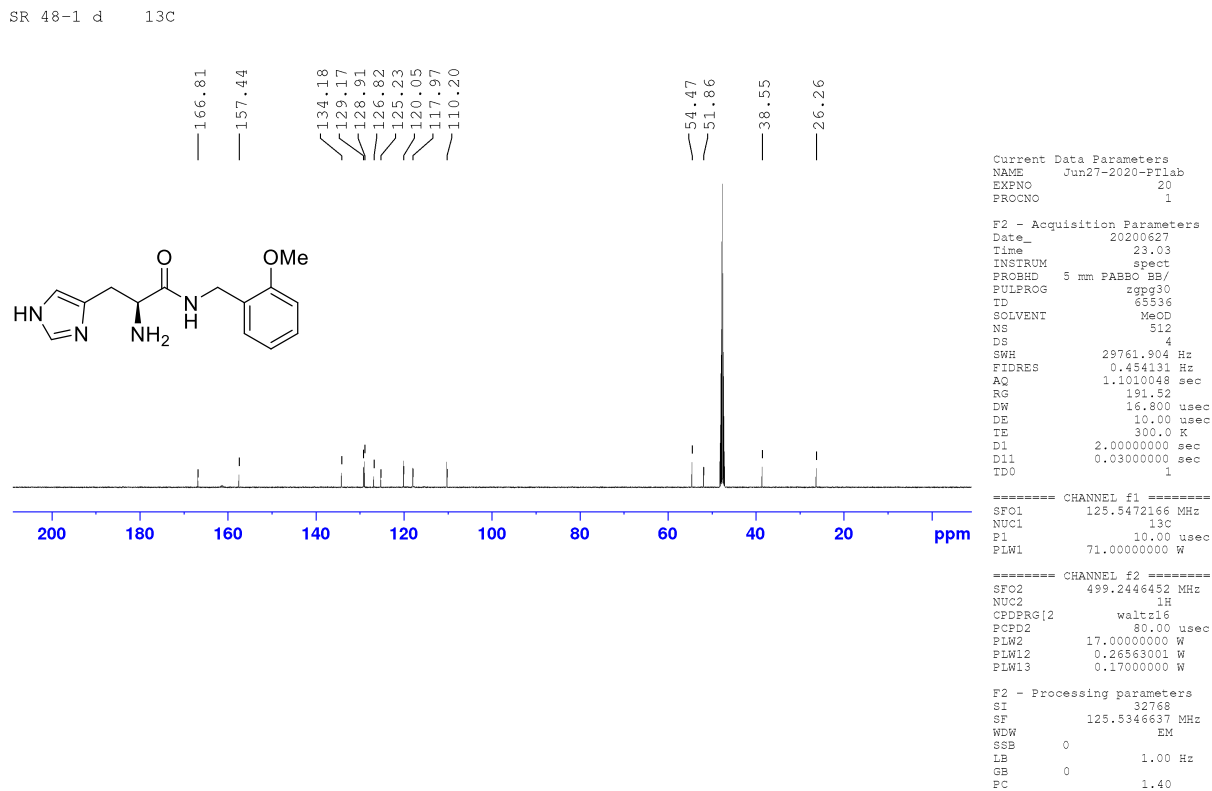
¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-3l4-imidazol-4-yl)-N-(2-methoxybenzyl)propanamide

(5d):



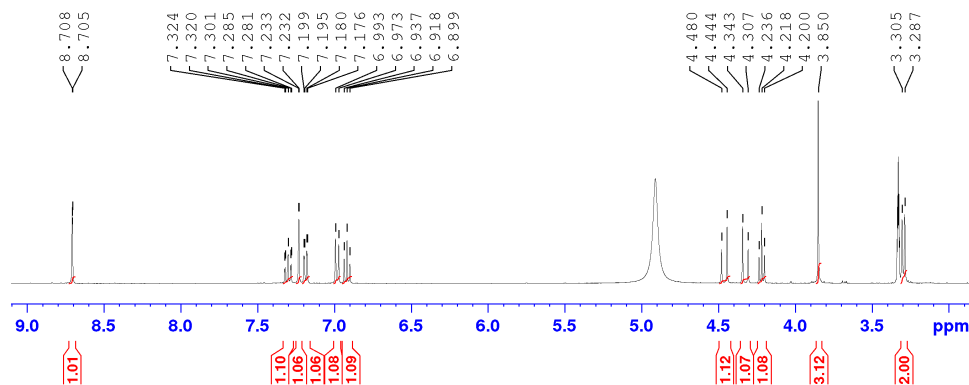
¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-methoxybenzyl)propanamide

(5d):



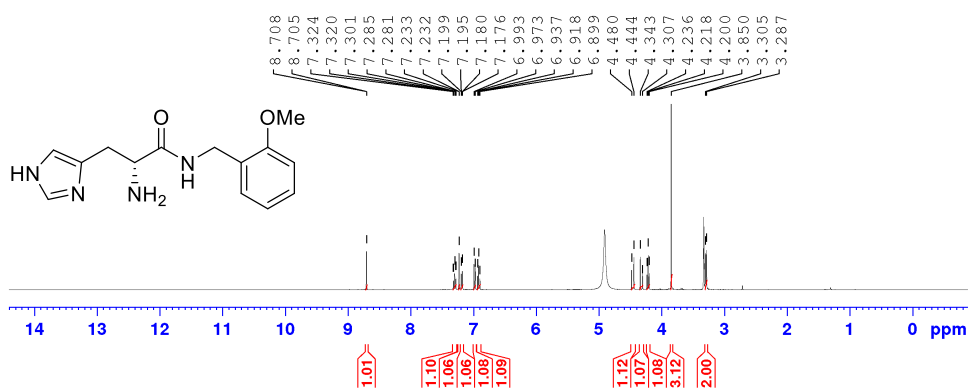
¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-3i4-imidazol-4-yl)-N-(2-methoxybenzyl)propanamide (**5e**):

SR 16-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 14



Current Data Parameters
NAME Dec28-2020-PTLab
EXPNO 130
PROCNO 1

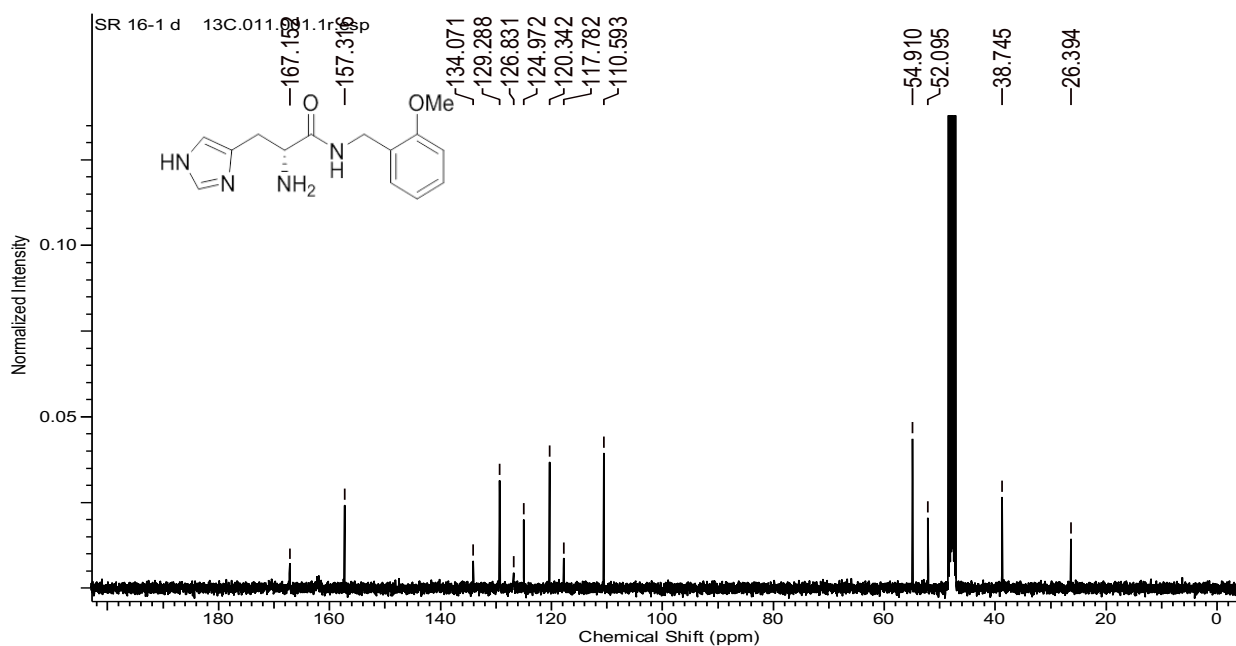
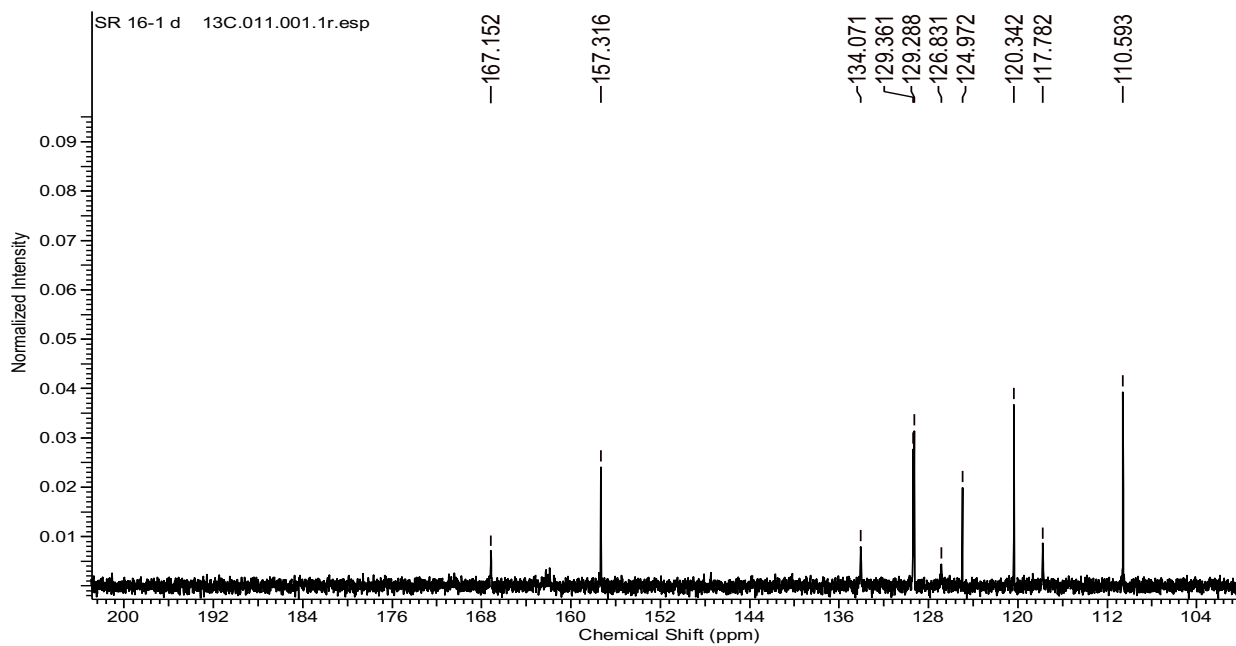
F2 - Acquisition Parameters
Date_ 20201228
Time 20.15
INSTRUM spect
PROBHD 5 mm PABBO BBI/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
LW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 6.00000000 sec
TDO 1



----- CHANNEL f1 -----
SFO1 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

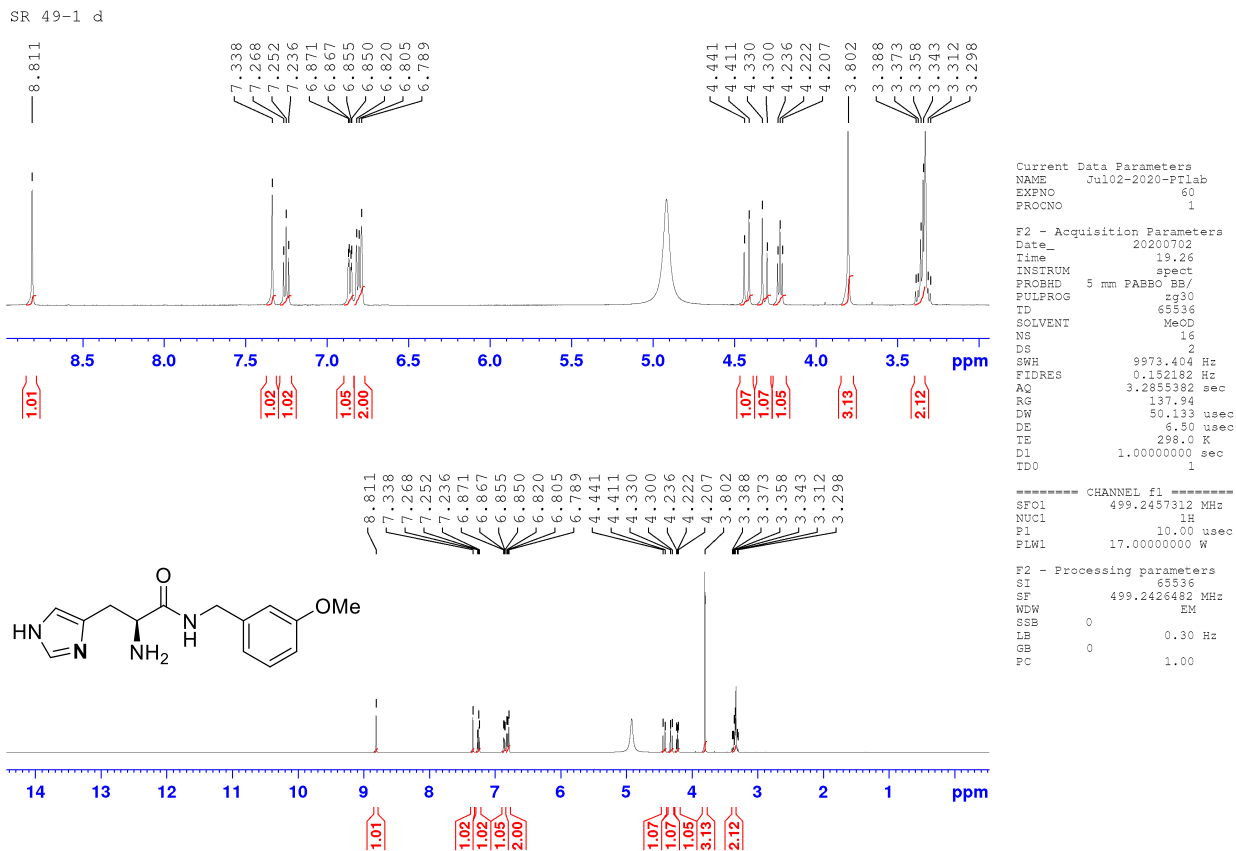
F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

¹³C NMR (100 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-3*H*-imidazol-4-yl)-*N*-(2-methoxybenzyl)propanamide (**5e**):



¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-3/4-imidazol-4-yl)-N-(3-methoxybenzyl)propanamide

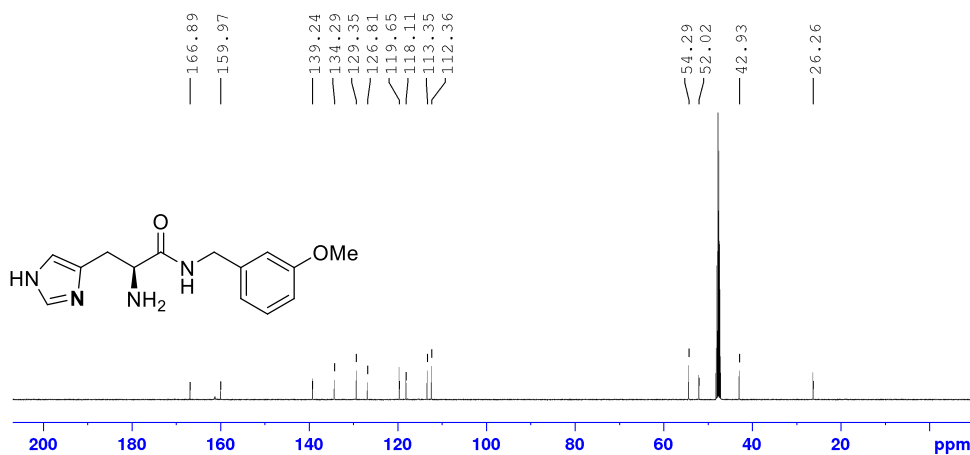
(5f):



¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-3l4-imidazol-4-yl)-N-(3-methoxybenzyl)propanamide

(5f):

SR 49-1 d 13C



Current Data Parameters
NAME Jul02-2020-F11ab
EXPNO 70
PROCNO 1
F2 - Acquisition Parameters
Date_ 20200702
Time 20.11
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 191.52
DW 16.800 usec
DE 10.00 usec
TE 300.0 K
D1 2.0000000 sec
D11 0.0300000 sec
TDO 1

===== CHANNEL f1 =====
SFO1 125.5472166 MHz
NUC1 13C
P1 10.00 usec
PLW1 71.00000000 W

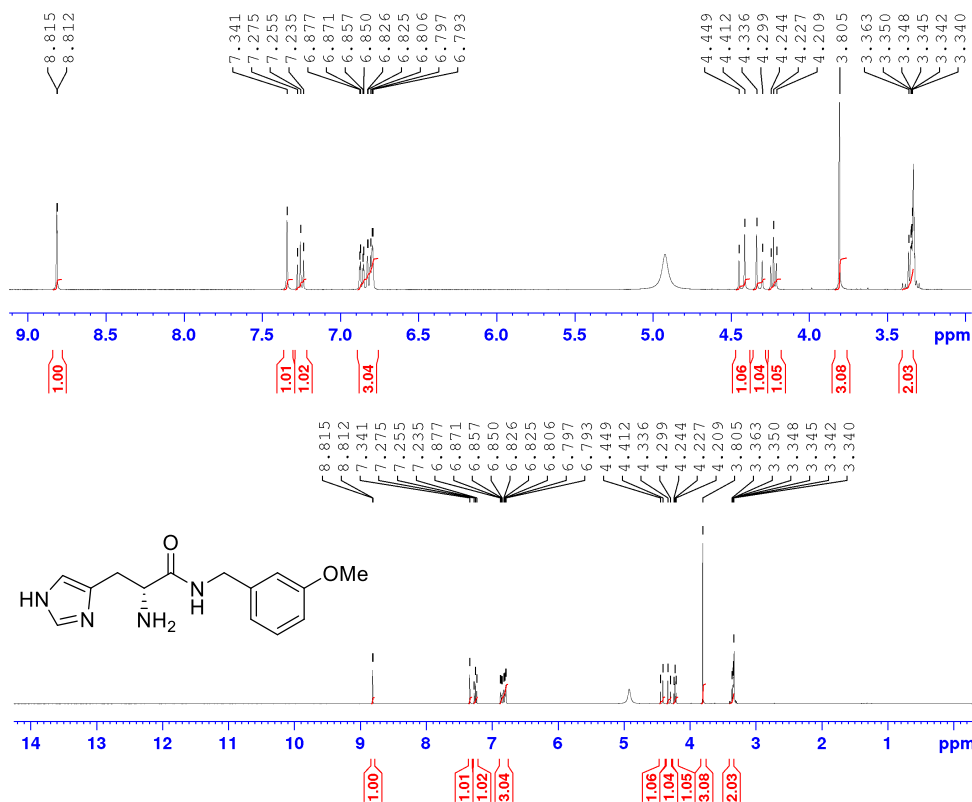
===== CHANNEL f2 =====
SFO2 499.2446452 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 80.00 usec
PLW2 17.00000000 W
PLW12 0.26563001 W
PLW13 0.17000000 W

F2 - Processing parameters
SI 32768
SF 125.5346637 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
FC 1.40

¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-3l4-imidazol-4-yl)-N-(3-methoxybenzyl)propanamide

(5g):

SR 70-1 d
zg30 MeOD (C:\Bruker\TopSpin3.2\Iconnmr) P1lab 18



```

Current Data Parameters
NAME      Nov18-2020-P1lab
EXPNO    191
PROCNO   1

F2 - Acquisition Parameters
Date_    20201118
Time     21.39
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zg30
ID       30046
SOLVENT  MeOD
NS       16
DS       1
SWH      8012.820 Hz
FIDRES   0.266685 Hz
AQ       1.8748704 sec
RG       256
DW       62.400 usec
DE       6.50 usec
TE       300.0 K
D1       6.00000000 sec
TD0      1

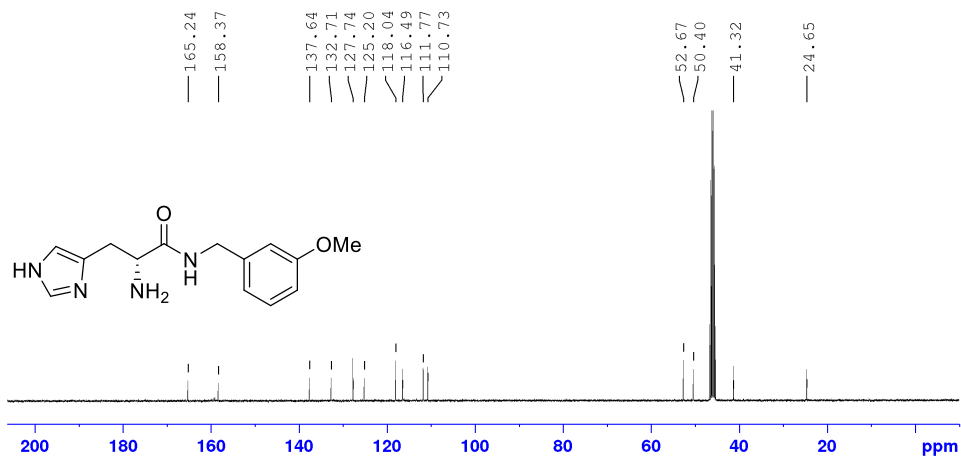
===== CHANNEL f1 =====
SF01    400.2821952 MHz
NUC1     1H
P1       10.86 usec
PLW1    17.00000000 W

F2 - Processing parameters
SI       131072
SF       400.2799988 MHz
WDW      EM
SSB      0
LB       0.20 Hz
GB       0
PC       1.00
    
```

¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-3/4-imidazol-4-yl)-N-(3-methoxybenzyl)propanamide

(5g):

SR 70-1 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 18



Current Data Parameters
NAME Nov18-2020-PTLab
EXFNO 200
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201118
Time 22.31
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 512
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 100.6605506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.00000000 W

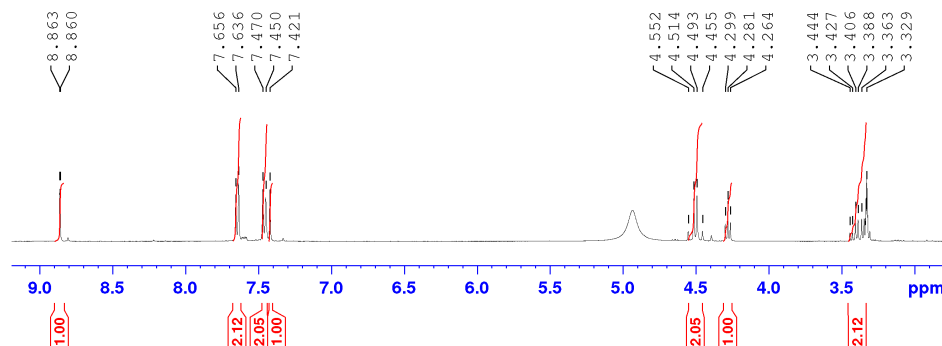
===== CHANNEL f2 =====
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.00000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)benzyl)propanamide

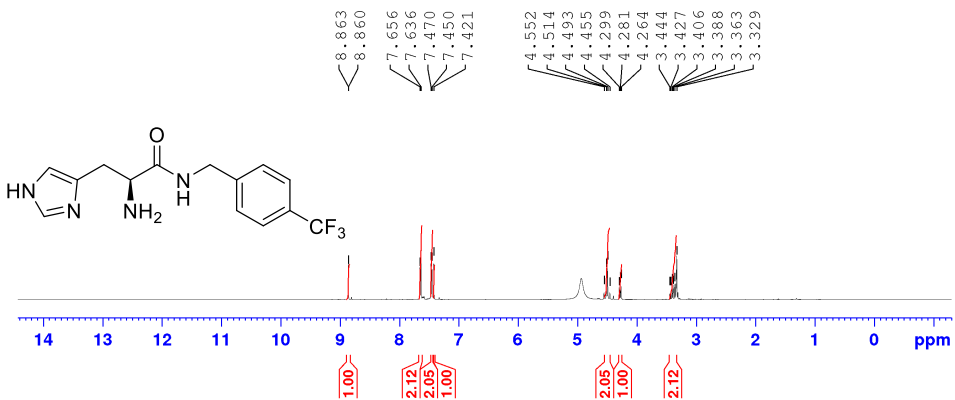
(5h):

PSK-6
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 9



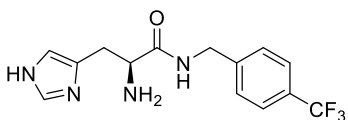
Current Data Parameters
NAME Jan07-2021-PTLab
EXPNO 60
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210107
Time 17.14
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.0 K
D1 6.00000000 sec
TDO 1



==== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

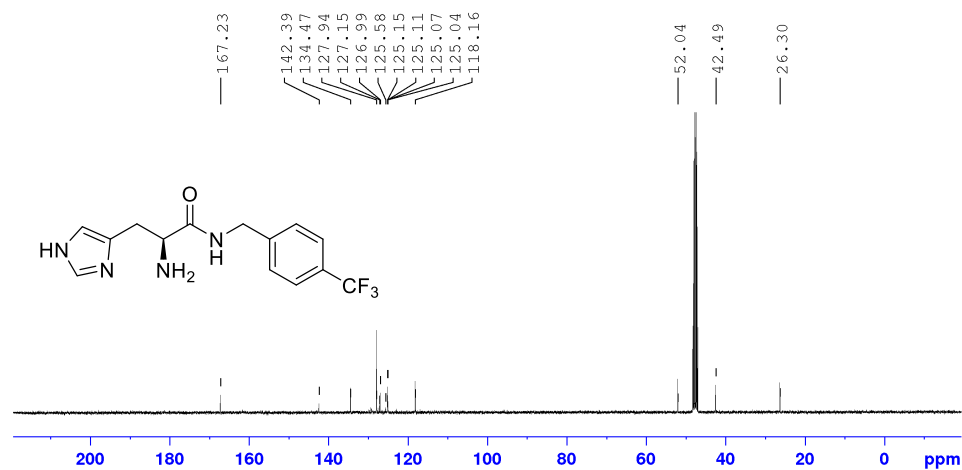
F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SBB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)benzyl)propanamide

(5h):

PSK-6-Carbon



```
Current Data Parameters
NAME      Jan07-2021-PTlab
EXPNO     61
PROCNO    1

F2 - Acquisition Parameters
Date_     20210107
Time      17.33
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
TD         65536
SOLVENT   MeOD
NS         300
DS         4
SWH       24038.461 Hz
FIDRES    0.366798 Hz
AQ         1.3631488 sec
RG         2050
DW         20.800 usec
DE         6.50 usec
TE         300.1 K
D1         2.0000000 sec
D11        0.0300000 sec
TDO        1

===== CHANNEL f1 =====
SFO1      100.6605506 MHz
NUC1       13c
P1         11.00 usec
PLW1       48.0000000 W

===== CHANNEL f2 =====
SFO2      400.2816011 MHz
NUC2       1H
CPDPRG2   waltz16
PCPD2     90.00 usec
PLW2       17.0000000 W
PLW12     0.24753000 W
PLW13     0.20050000 W

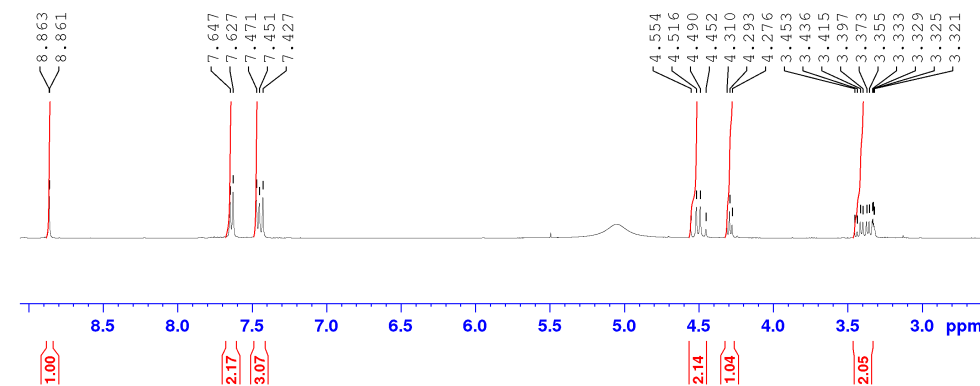
F2 - Processing parameters
SI         32768
SF         100.6504861 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```

¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)benzyl)propanamide

(5i):

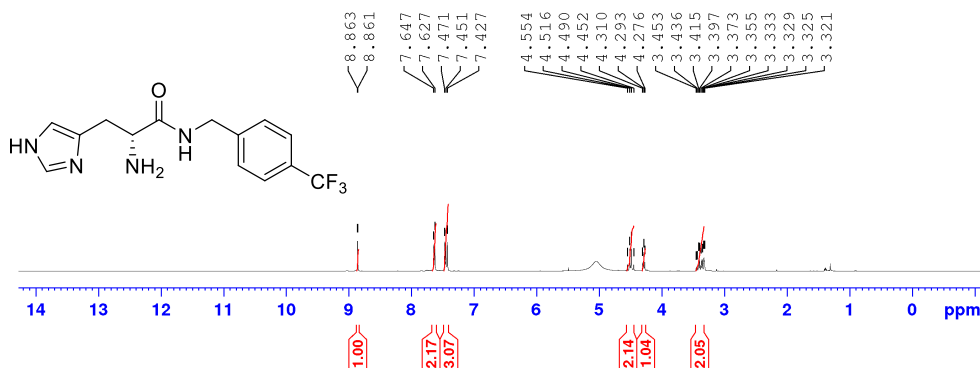
KS-102

zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 12



Current Data Parameters
 NAME Nov28-2020-PTLab
 EXPNO 50
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201128
 Time 21.23
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 ID 30046
 SOLVENT MeOD
 NS 12
 DS 1
 SWH 8012.820 Hz
 FIDRES 0.266685 Hz
 AQ 1.8748704 sec
 RG 101
 DW 62.400 usec
 DE 6.50 usec
 TE 300.1 K
 D1 6.00000000 sec
 TDO 1



==== CHANNEL f1 =====
 SF01 400.2821952 MHz
 NUC1 1H
 P1 10.86 usec
 PLW1 17.00000000 W

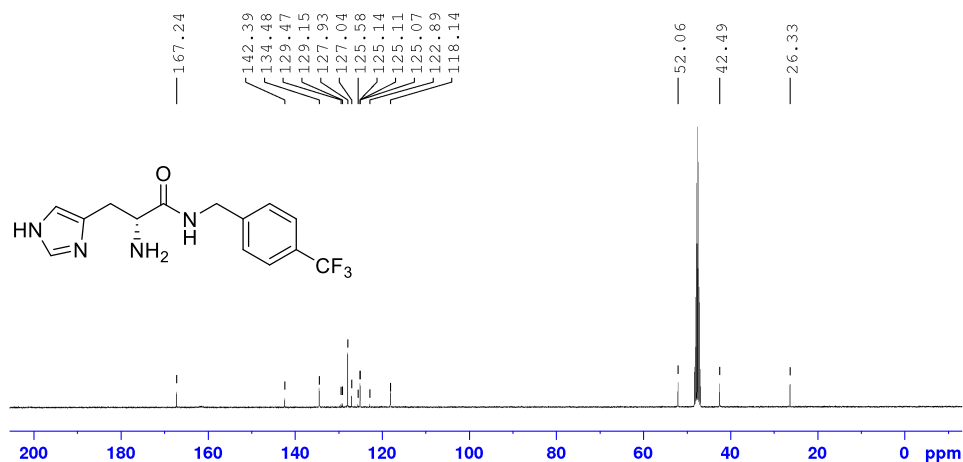
F2 - Processing parameters
 SI 131072
 SF 400.2800000 MHz
 WDW EM
 SSB 0
 LB 0.20 Hz
 GB 0
 PC 1.00

¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)benzyl)propanamide

(5i):

KS-102

C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 13



Current Data Parameters
NAME Dec05-2020-PTLab
EXPNO 220
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201206
Time 2.55
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

----- CHANNEL f1 -----
SFO1 100.6605506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.0000000 W

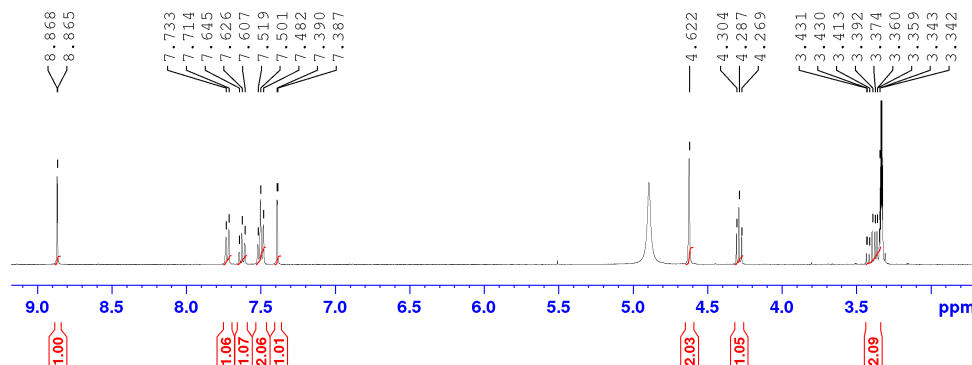
----- CHANNEL f2 -----
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 17.0000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(trifluoromethyl)benzyl)propanamide

(5j):

SR 74-1d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} FTlab 6

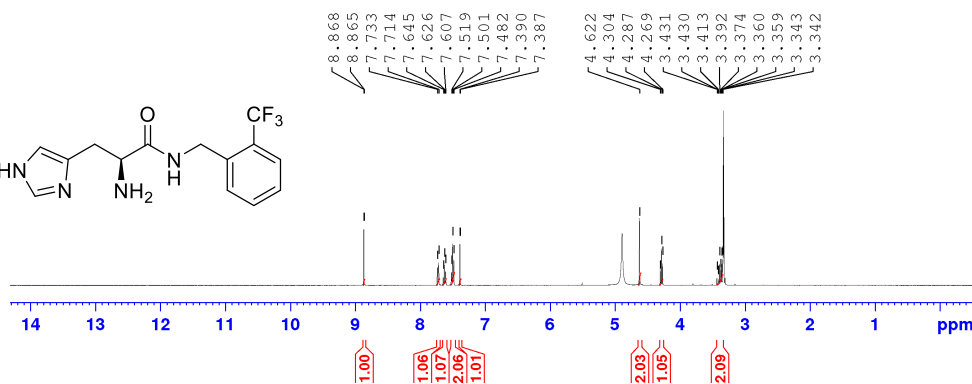
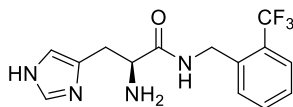


Current Data Parameters
NAME Nov22-2020-FTlab
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201122
Time 17.54
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 6.0000000 sec
TDO 1

==== CHANNEL f1 =====
SFO1 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.0000000 W

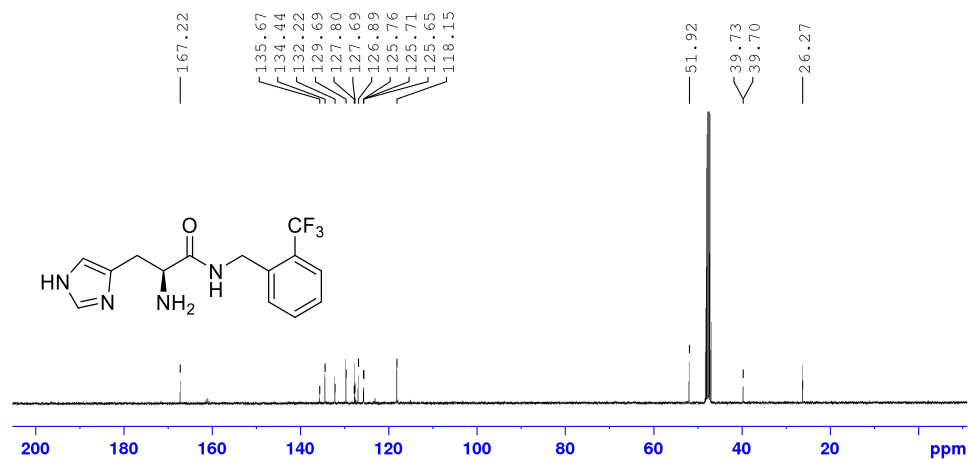
F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(trifluoromethyl)benzyl)propanamide

(5j):

SR 74-1 d 13C
Cl3CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 14



Current Data Parameters
NAME Nov22-2020-PTLab
EXFNO 130
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201122
Time 21.33
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 512
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
DI 2.0000000 sec
D11 0.03000000 sec
TD0 1

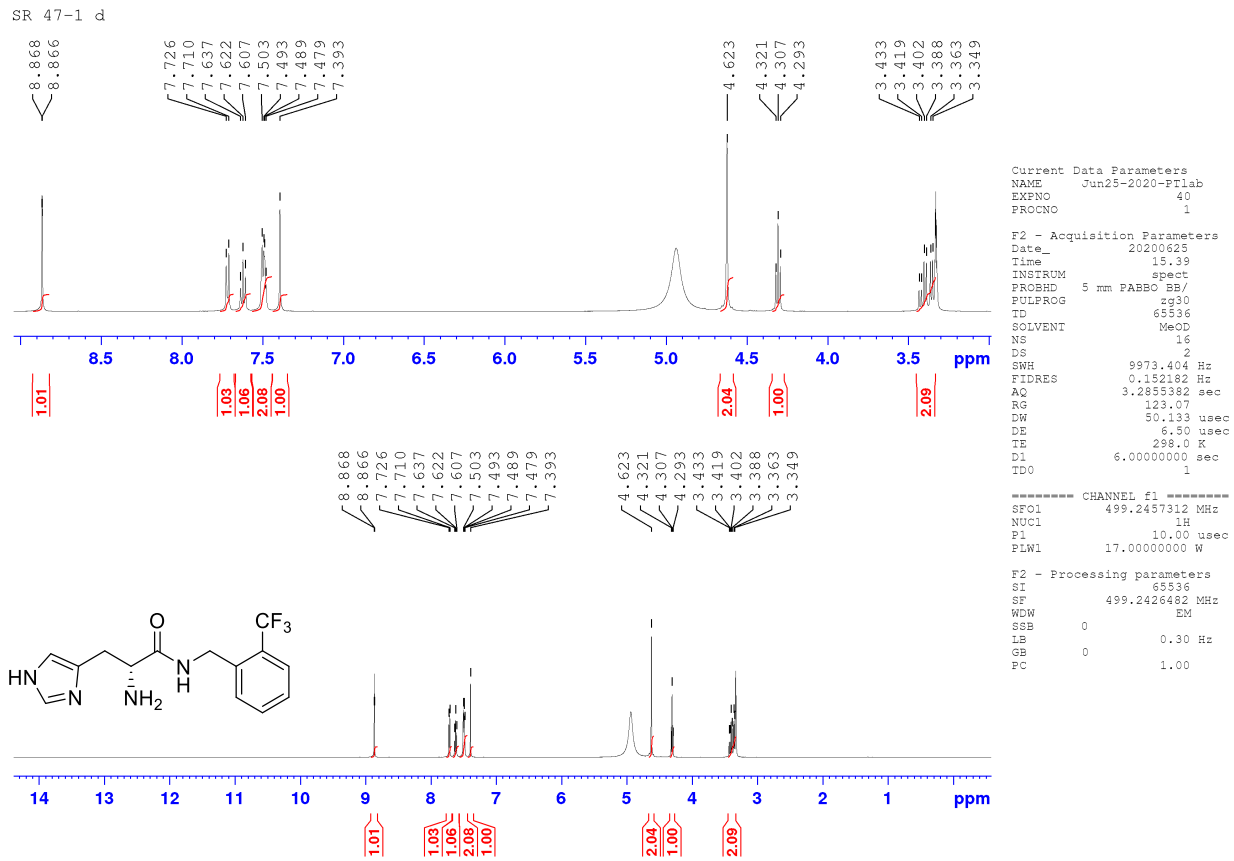
==== CHANNEL f1 =====
SFO1 100.6605506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.0000000 W

==== CHANNEL f2 =====
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.0000000 W
PLW2 0.24753000 W
PLW3 0.20080000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDM EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (500 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(trifluoromethyl)benzyl)propanamide

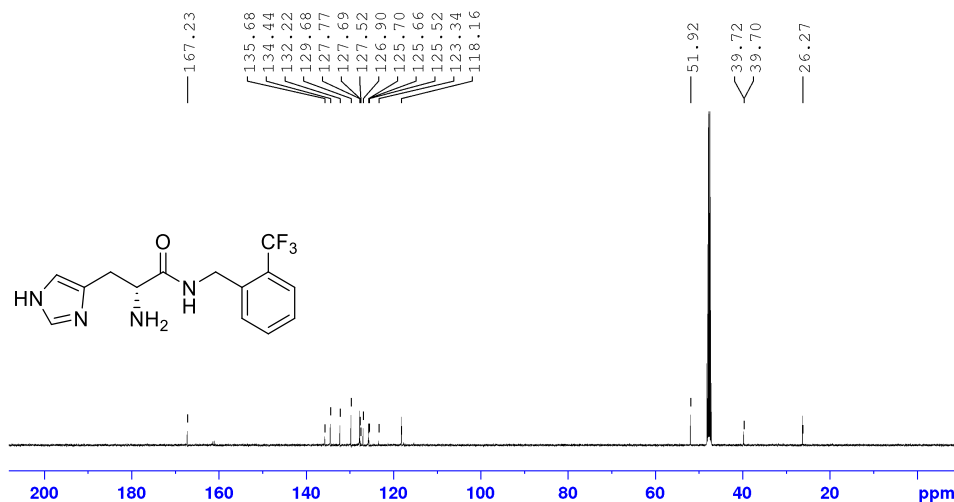
(5k):



¹³C NMR (126 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(trifluoromethyl)benzyl)propanamide

(5k):

SR 47-1 d 13 c



```
Current Data Parameters
NAME      Jun25-2020-PFlab
EXPNO     50
PROCNO    1

F2 - Acquisition Parameters
Date_     20200625
Time      16.02
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
ID        65536
SOLVENT   MeOD
NS        450
DS        4
SWH       29761.904 Hz
FIDRES    0.454131 Hz
AQ        1.1010048 sec
RG        191.52
DW        16.800 usec
DE        10.00 usec
TE        300.0 K
D1        2.0000000 sec
D11       0.0300000 sec
TDO       1

===== CHANNEL f1 =====
SFO1     125.5472166 MHz
NUC1     13C
P1       10.00 usec
PLW1     71.00000000 W

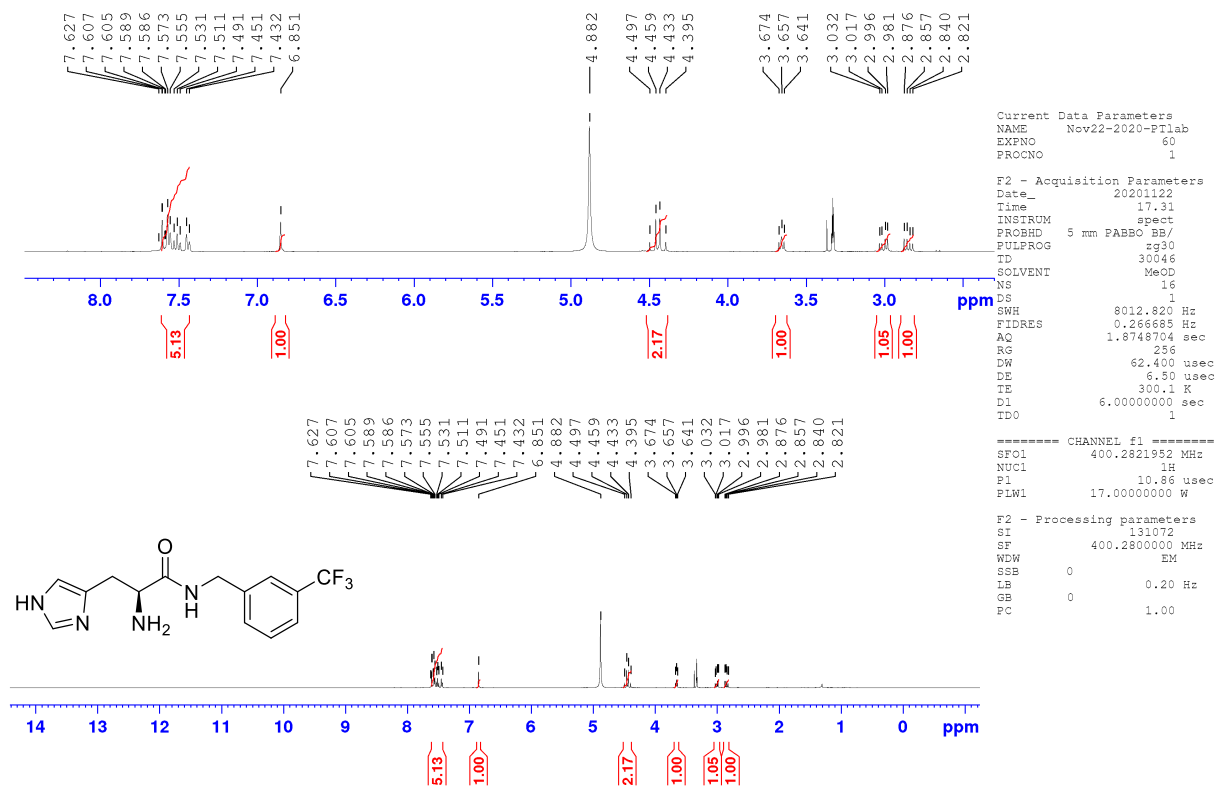
===== CHANNEL f2 =====
SFO2     499.2446452 MHz
NUC2     1H
CPCPRG[2] waltz16
PCPD2    80.00 usec
PLW2     17.00000000 W
PLW12    0.26563001 W
PLW13    0.17000000 W

F2 - Processing parameters
SI        32768
SF        125.5346637 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
```

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-(trifluoromethyl)benzyl)propanamide

(51):

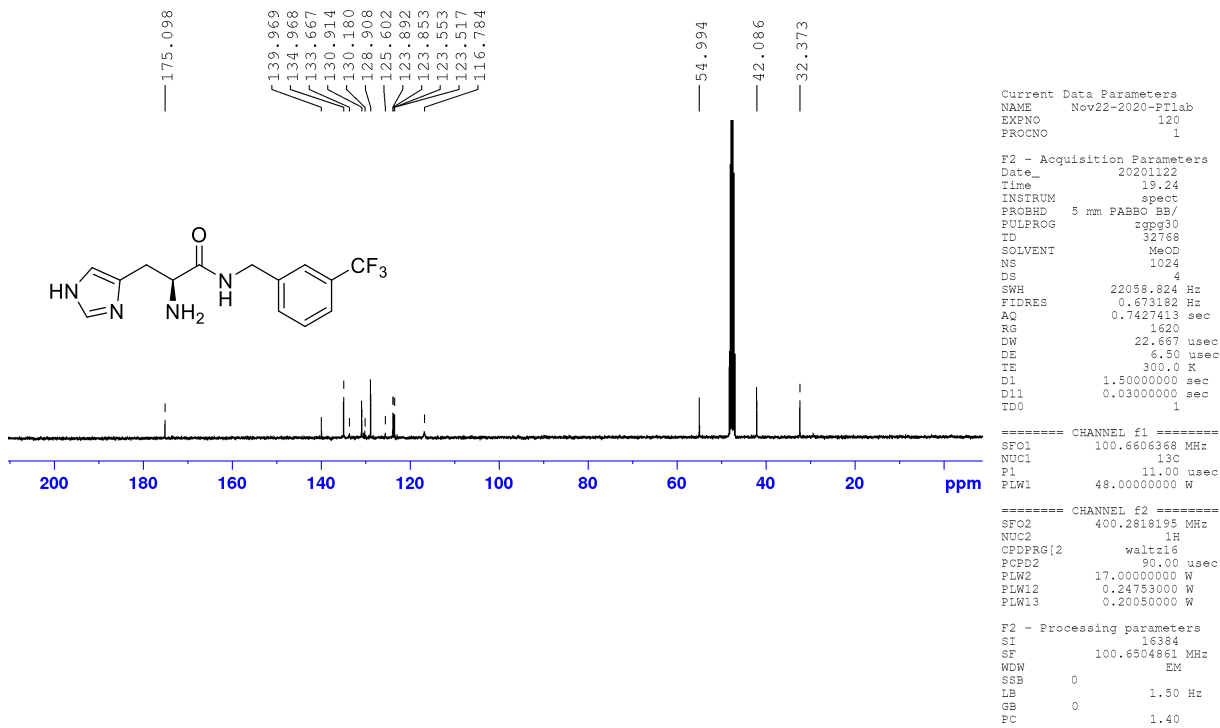
PSK-11
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 2



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-(trifluoromethyl)benzyl)propanamide

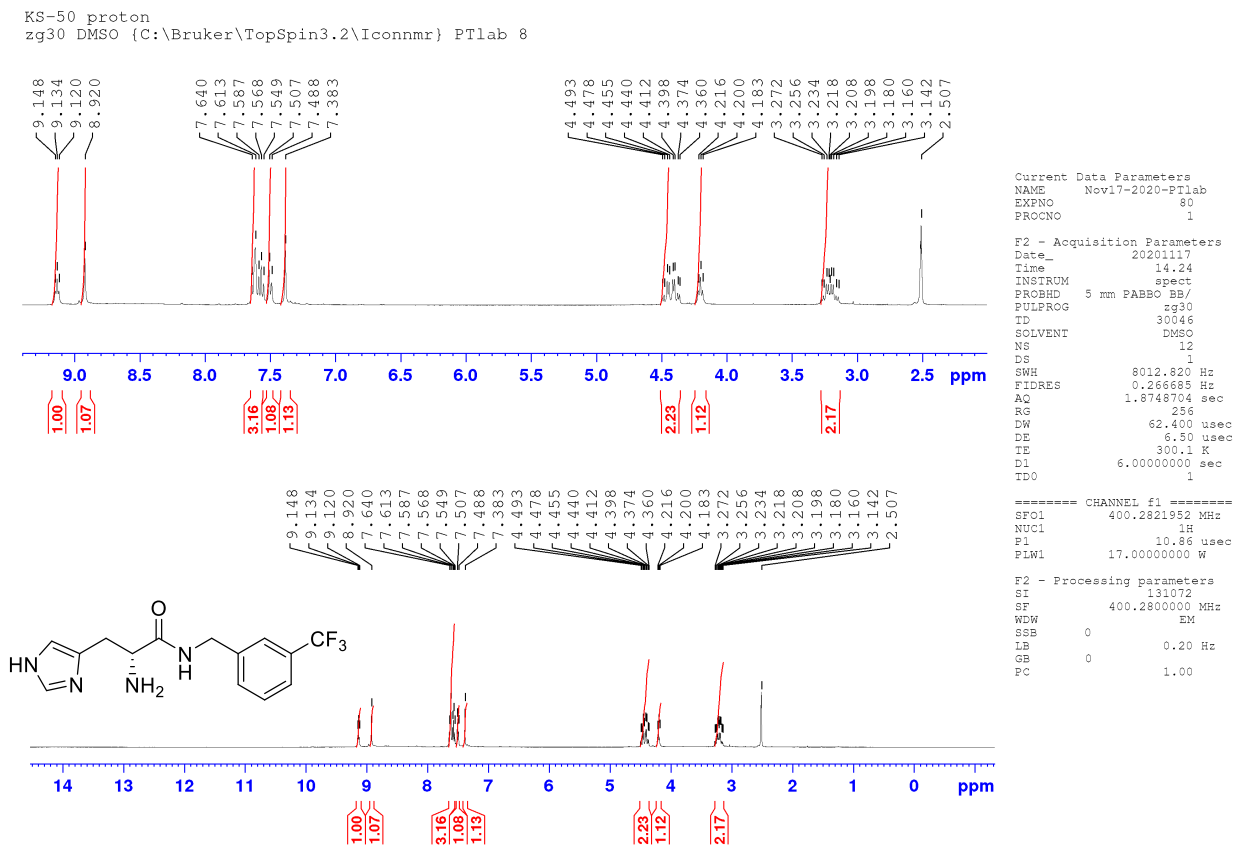
(51):

PSK-11 Carbon
zgpg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} FTlab 9



¹H NMR (400 MHz, DMSO-d₆), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(3-(trifluoromethyl)benzyl)propanamide

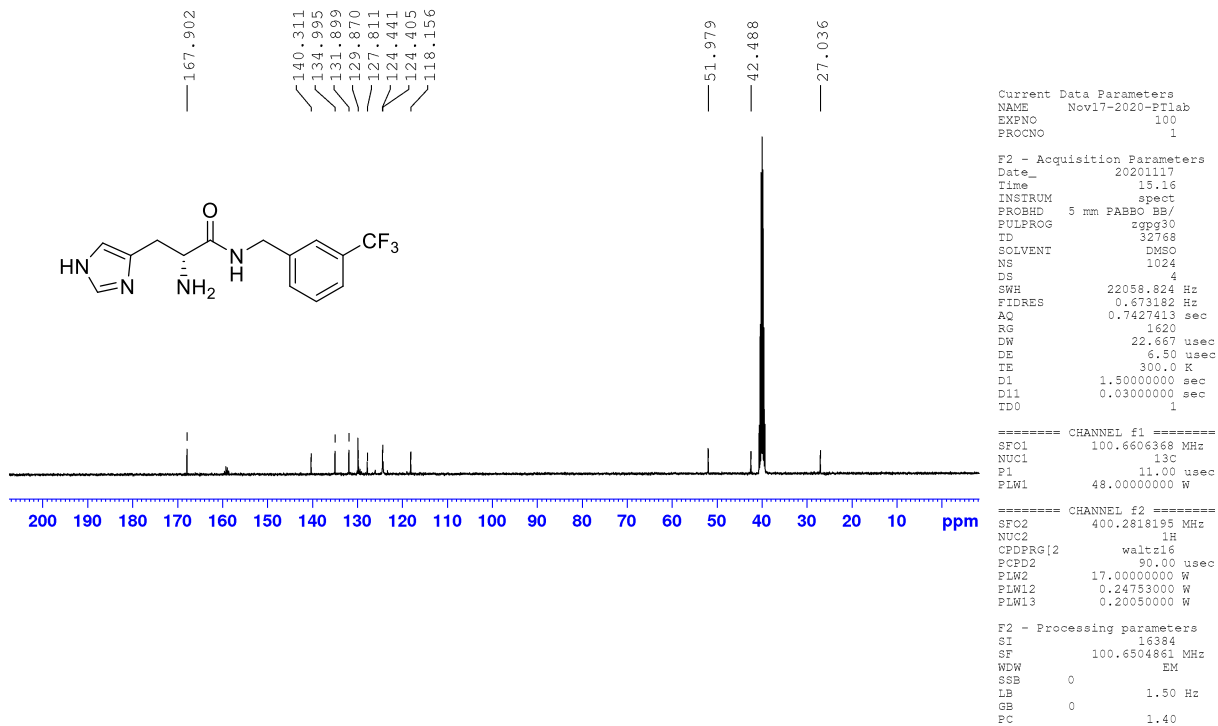
(5m):



¹³C NMR (100 MHz, DMSO-d₆), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(3-(trifluoromethyl)benzyl)propanamide

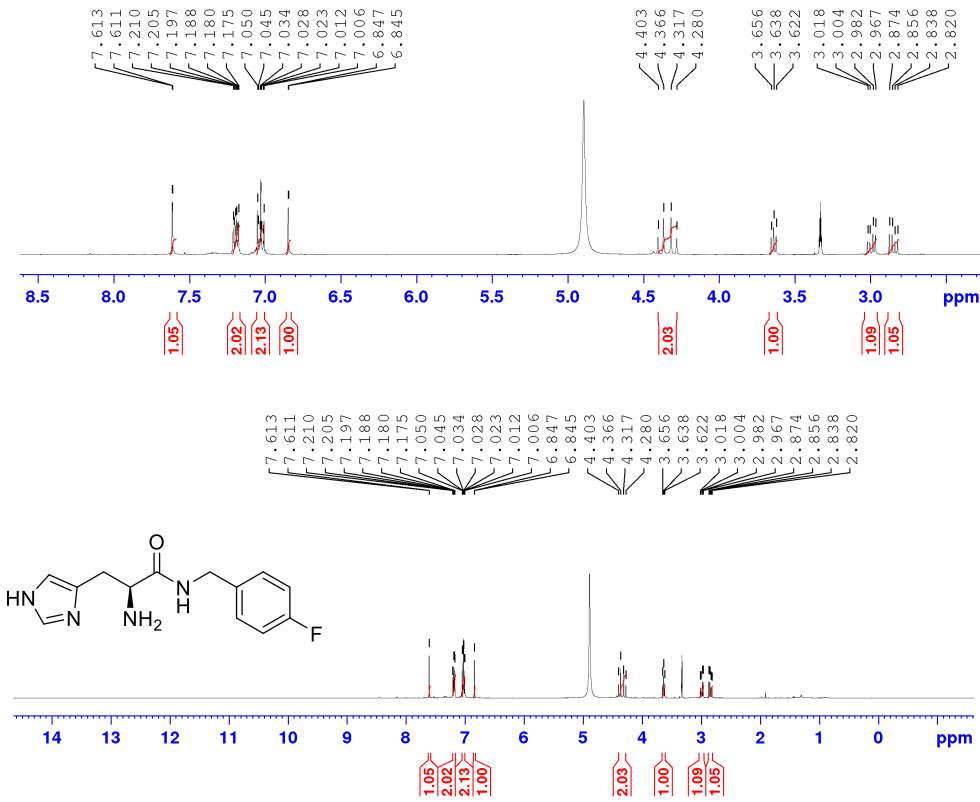
(5m):

KS-50Carbon
zgpg30 DMSO {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 11



¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-N-(4-fluorobenzyl)-3-(1H-imidazol-4-yl)propanamide (**5n**):

PSK-13
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 3



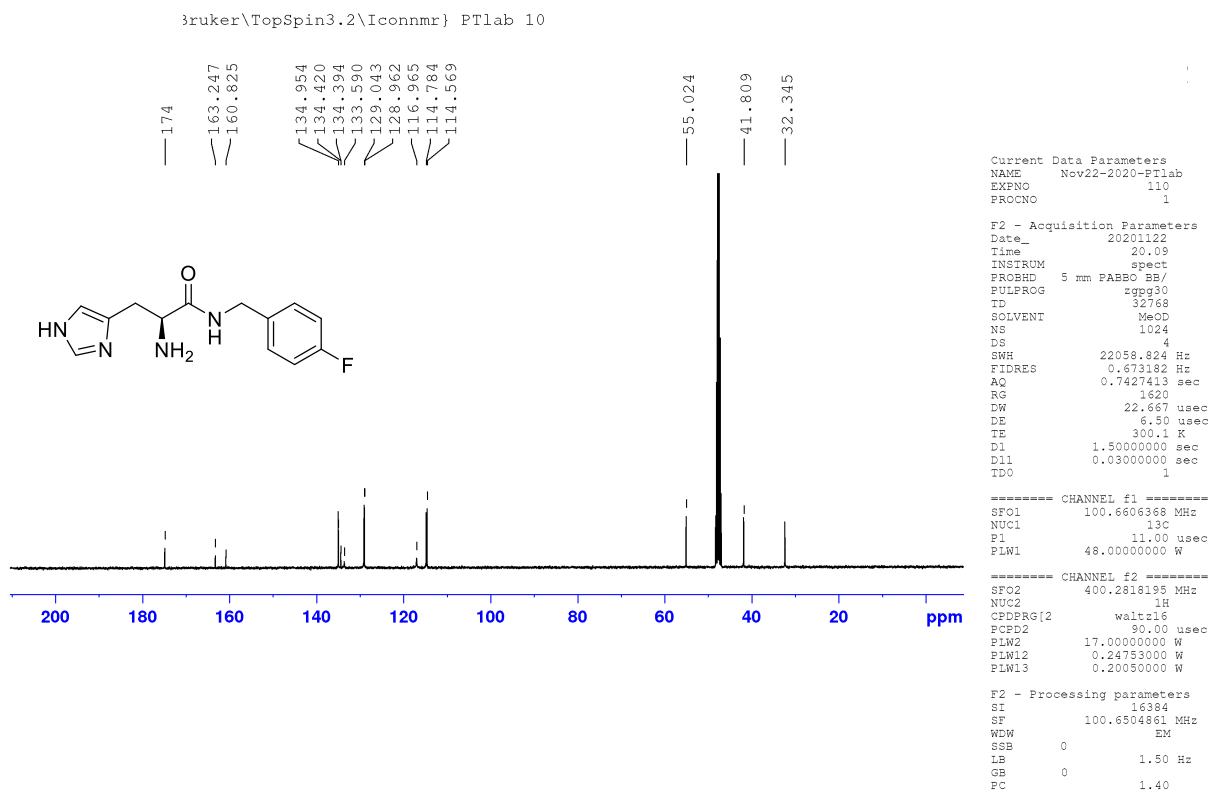
Current Data Parameters
NAME Nov22-2020-PTLab
EXPNO 70
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201122
Time 17.39
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 128
DW 62.400 usec
DE 6.50 usec
TE 300.2 K
D1 6.00000000 sec
TDC 1

===== CHANNEL f1 =====
SFO1 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

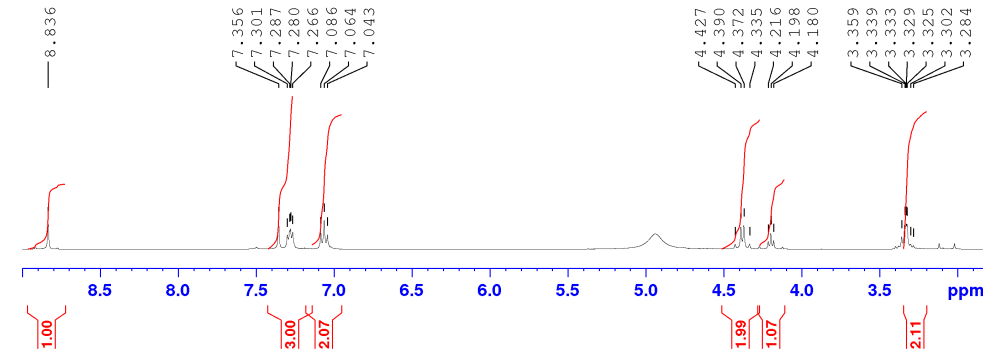
F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-N-(4-fluorobenzyl)-3-(1H-imidazol-4-yl)propanamide (**5n**):

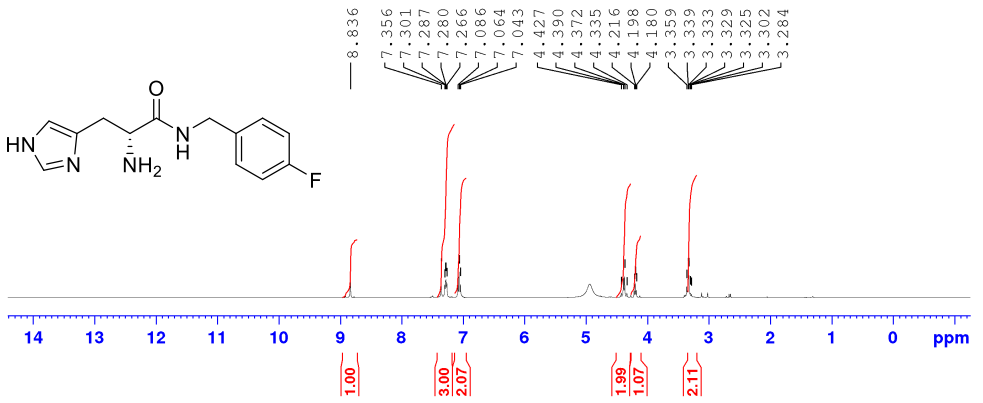


¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-N-(4-fluorobenzyl)-3-(1H-imidazol-4-yl)propanamide (**5o**):

KS-93d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 18

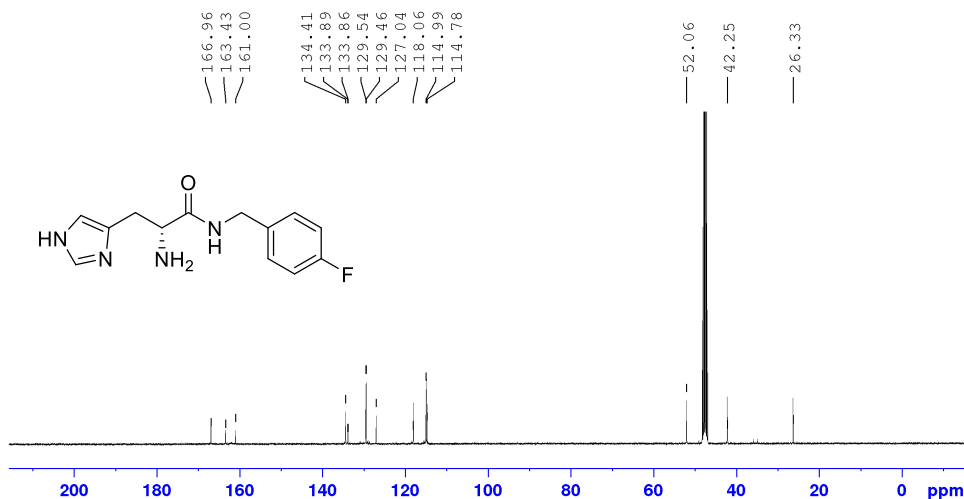


Current Data Parameters
 NAME Nov30-2020-PTLab
 EXPNO 40
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20201130
 Time 19:29
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 TD 30046
 SOLVENT MeOD
 NS 16
 DS 1
 SWH 8012.820 Hz
 FIDRES 0.266685 Hz
 AQ 1.8748704 sec
 RG 256
 DW 62.400 usec
 DE 6.50 usec
 TE 300.1 K
 D1 6.00000000 sec
 TDO 1
 ===== CHANNEL f1 =====
 SFO1 400.2821952 MHz
 NUC1 1H
 P1 10.86 usec
 PLW1 17.00000000 W
 F2 - Processing parameters
 SI 131072
 SF 400.2800000 MHz
 WDW EM
 SSB 0
 LB 0.20 Hz
 GB 0
 PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-N-(4-fluorobenzyl)-3-(1H-imidazol-4-yl)propanamide (**5o**):

KS-93-d Carbon
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 3



Current Data Parameters
NAME Jan30-2021-PTLab
EXPNO 70
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210130
Time 15.48
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65536
SOLVENT MeOD
NS 1024
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.1 K
D1 2.0000000 sec
D11 0.0300000 sec
TDO 1

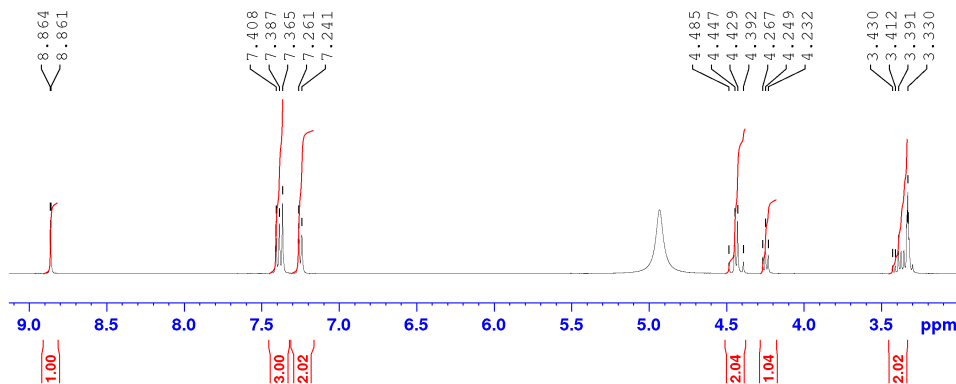
===== CHANNEL f1 =====
SFO1 100.6605506 MHz
NUC1 13c
P1 11.00 usec
PLW1 48.00000000 W

===== CHANNEL f2 =====
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.00000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethoxy)benzyl)propanamide (**5p**):

PSK-5d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 14

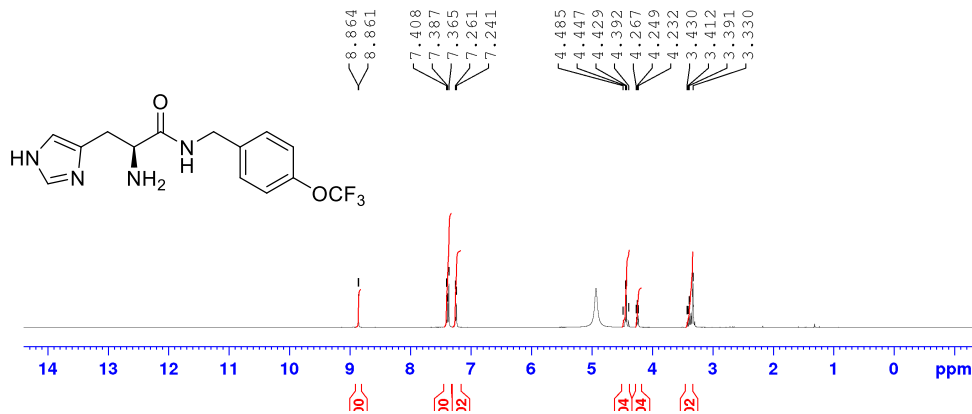


Current Data Parameters
NAME Jan29-2021-PTLab
EXPNO 120
PROCNO 1

F2 - Acquisition Parameters
Date_ 20210129
Time 18.26
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 6.00000000 sec
TDO 1

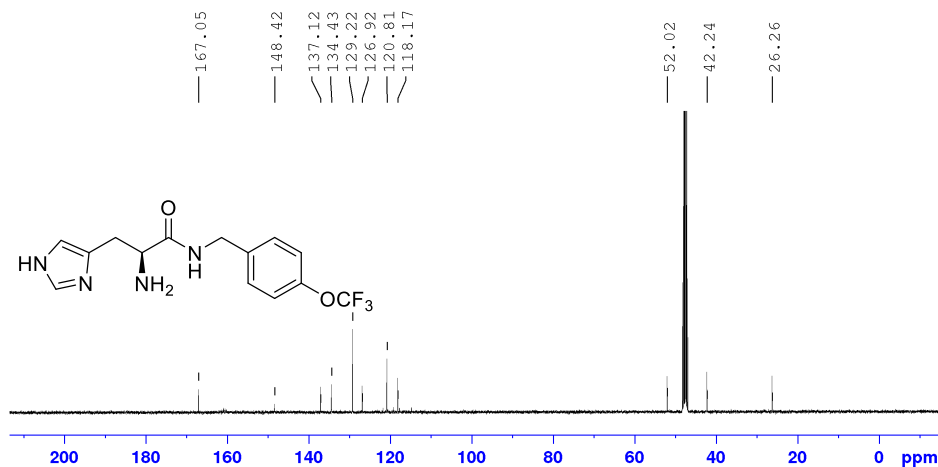
===== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(4-(trifluoromethoxy)benzyl)propanamide (**5p**):

PSK-5d carbon
 C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PT1lab 14



```

Current Data Parameters
NAME      Jan29-2021-PT1lab
EXPNO    121
PROCNO   1

F2 - Acquisition Parameters
Date_    20210129
Time     19.04
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       526
DS       4
SWH      24038.461 Hz
FIDRES   0.366798 Hz
AQ       1.3631488 sec
RG       2050
DW       20.800 usec
DE       6.50 usec
TE       300.1 K
D1       2.0000000 sec
D11      0.0300000 sec
TD0      1

===== CHANNEL f1 =====
SFO1    100.6605506 MHz
NUC1     13C
P1      11.00 usec
PLW1    48.0000000 W

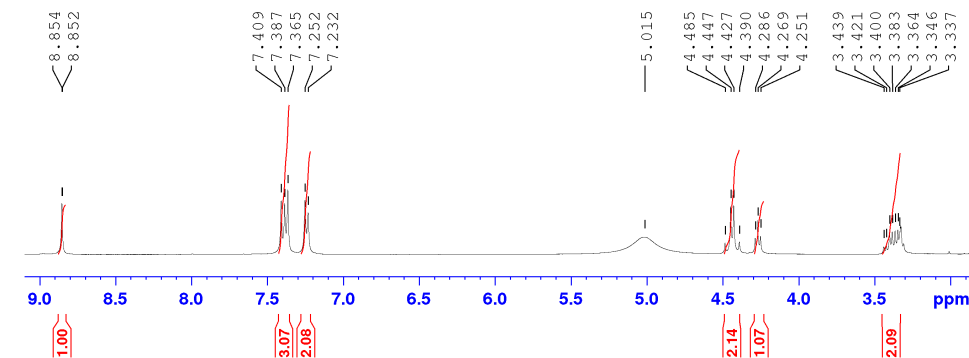
===== CHANNEL f2 =====
SFO2    400.2816011 MHz
NUC2     1H
PCPD2   waltz16
PCPD2   90.00 usec
PLW2    17.0000000 W
PLW2    0.24753000 W
PLW3    0.20050000 W

F2 - Processing parameters
SI      32768
SF      100.6504861 MHz
WDW     EM
SSB     0
LB      1.00 Hz
GB      0
PC      1.40
  
```

¹H NMR (400 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(4-(trifluoromethoxy)benzyl)propanamide

(5q):

KS-99
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 6



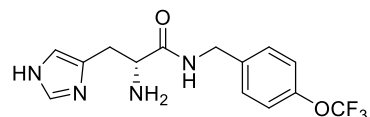
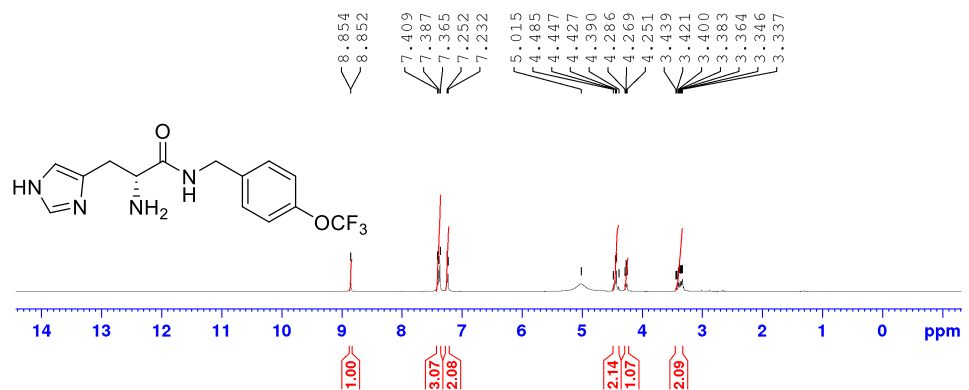
```

Current Data Parameters
NAME      Nov23-2020-PTLab
EXPNO    20
PROCNO   1

F2 - Acquisition Parameters
Date_    20201123
Time     13.11
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zg30
TD       30046
SOLVENT  MeOD
NS       16
DS       1
SWH      8012.820 Hz
FIDRES   0.266685 Hz
AQ       1.8748704 sec
RG       114
DW       62.400 usec
DE       6.50 usec
TE       300.1 K
D1       6.00000000 sec
TD0      1

===== CHANNEL f1 =====
SFO1    400.2821952 MHz
NUC1    1H
P1      10.86 usec
PLW1    17.00000000 W

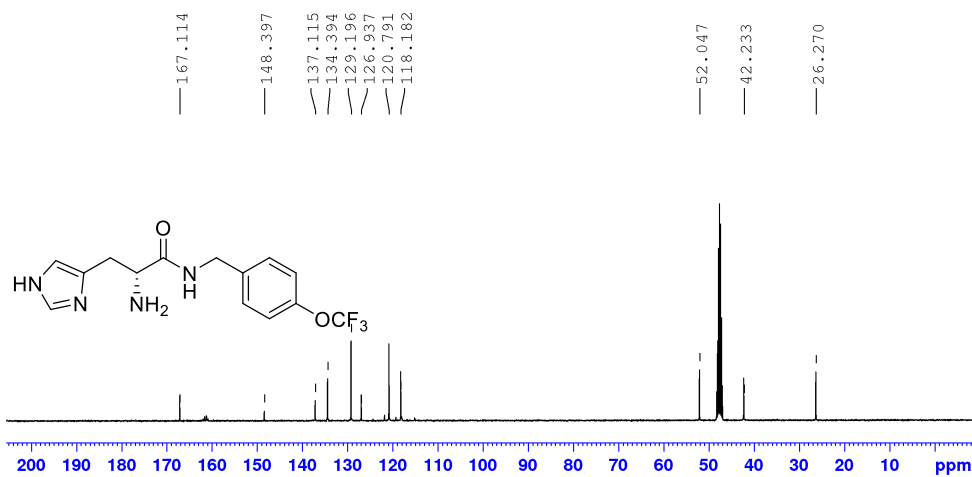
F2 - Processing parameters
SI      131072
SF      400.2800000 MHz
WDW     EM
SSB     0
LB      0.20 Hz
GB      0
PC      1.00
    
```



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethoxy)benzyl)propanamide

(5q):

KS-99 carbon
zgpg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 6



Current Data Parameters
NAME Nov23-2020-PTLab
EXPNO 21
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201123
Time 13.58
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 32768
SOLVENT MeOD
NS 1024
DS 4
SWH 22058.824 Hz
FIDRES 0.673182 Hz
AQ 0.7427413 sec
RG 1620
DW 22.667 usec
DE 6.50 usec
TE 300.1 K
D1 1.5000000 sec
D11 0.0300000 sec
TDO 1

==== CHANNEL f1 =====
SFO1 100.6606368 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.0000000 W

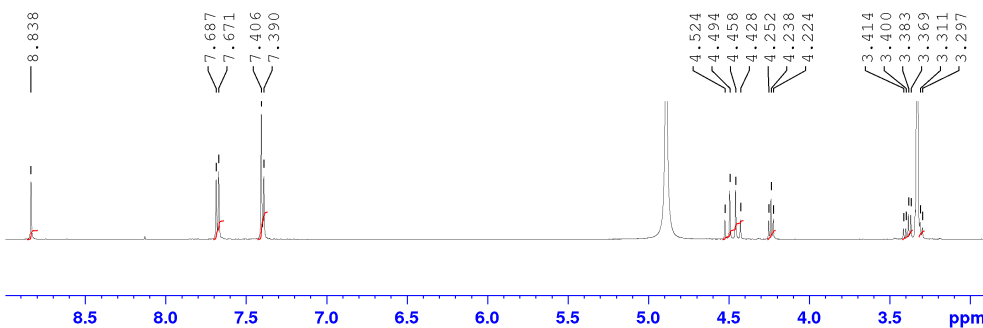
==== CHANNEL f2 =====
SFO2 400.2818195 MHz
NUC2 1H
CPDPRG[2] waltz16
PCPD2 90.00 usec
PLW2 17.0000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 16384
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.50 Hz
GB 0
FC 1.40

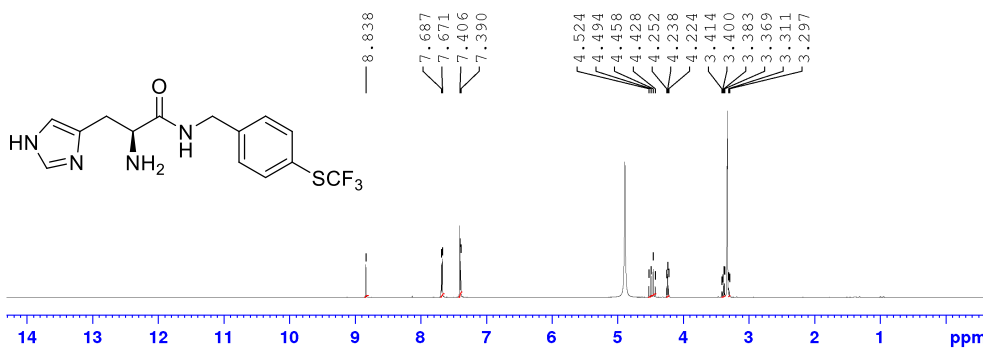
¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-

((trifluoromethyl)thio)benzyl)propanamide (**5r**):

SR 25-1 d



Current Data Parameters
NAME Oct16-2019-Flab
EXPNO 10
PROCNO 1
F2 - Acquisition Parameters
Date_ 20191016
Time 14.44
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 65536
SOLVENT MeOD
NS 16
DS 2
SWH 9973.404 Hz
FIDRES 0.152182 Hz
AQ 3.285532 sec
RG 491.52
DW 50.133 usec
DE 6.50 usec
TE 298.0 K
D1 6.00000000 sec
TDO 1

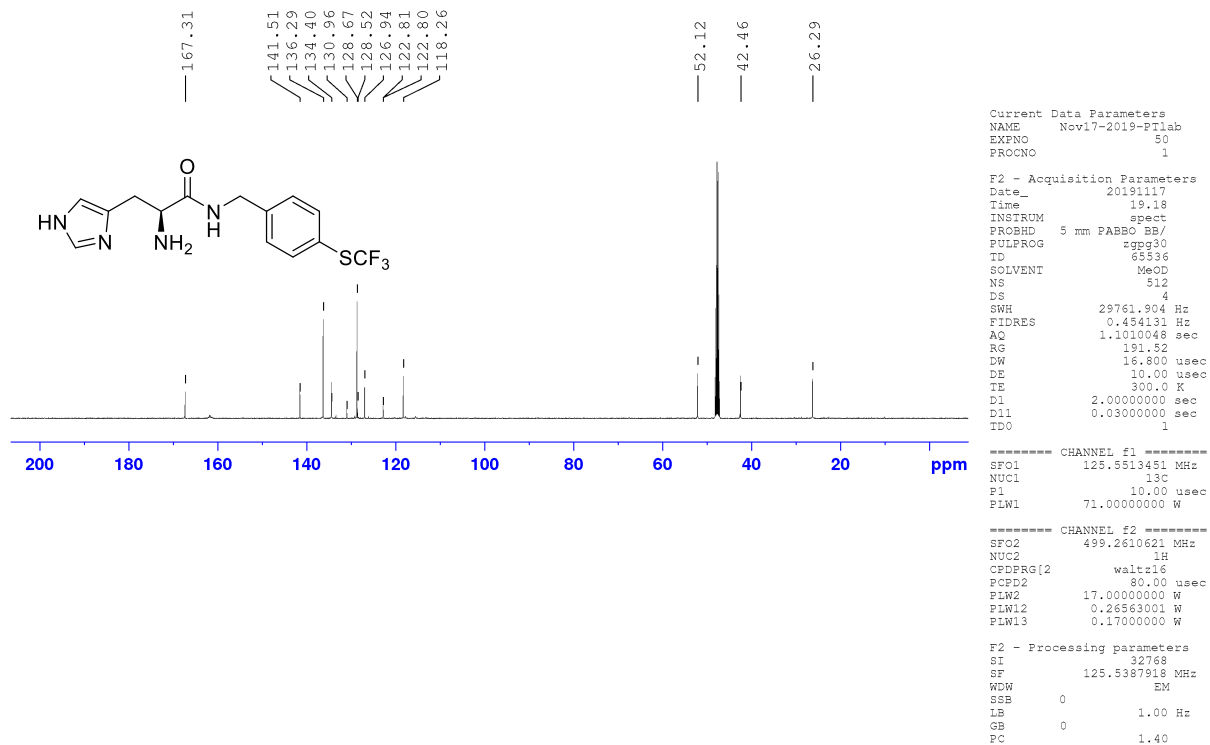


----- CHANNEL f1 -----
SFO1 499.2621482 MHz
NUC1 1H
P1 10.00 usec
PLW1 17.00000000 W
F2 - Processing parameters
SI 65536
SF 499.2590651 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

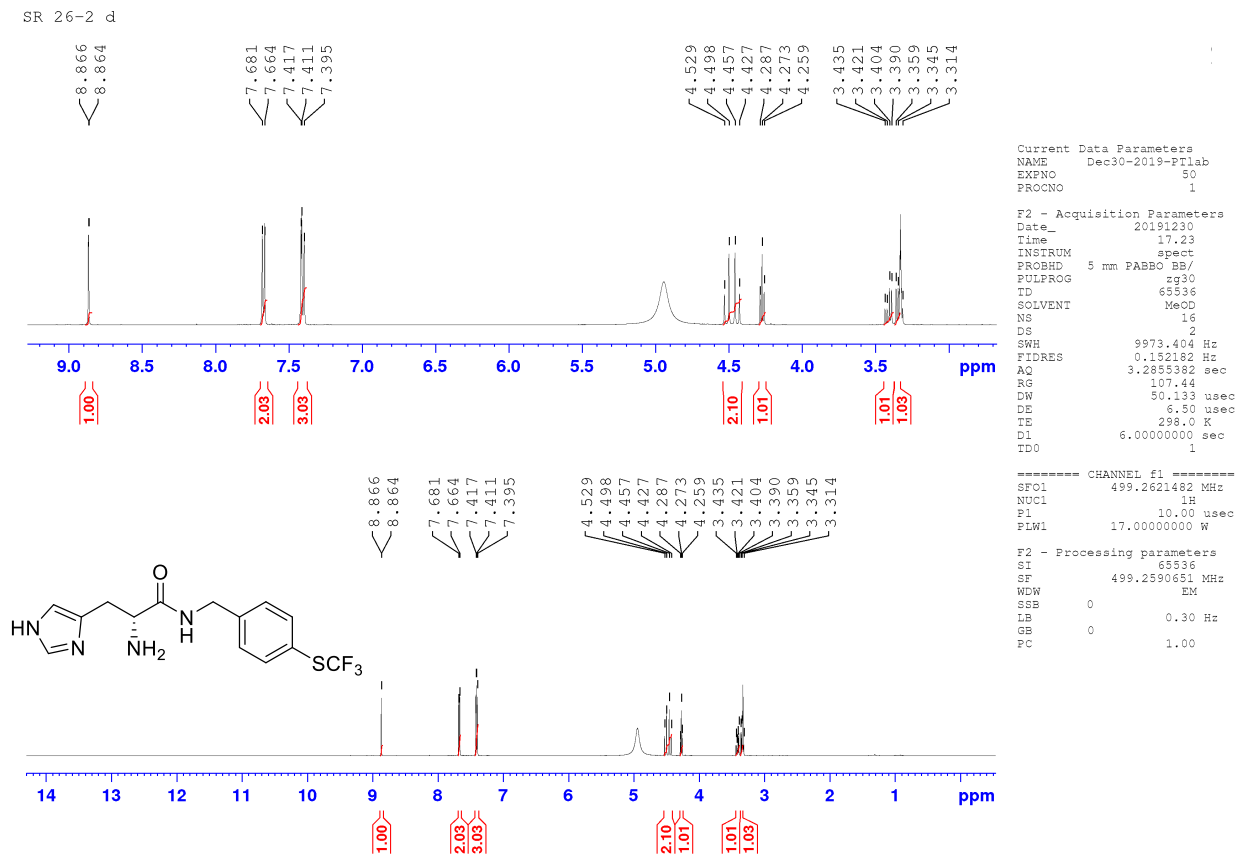
¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-

((trifluoromethyl)thio)benzyl)propanamide (**5r**):

SR 25-1 d 13c

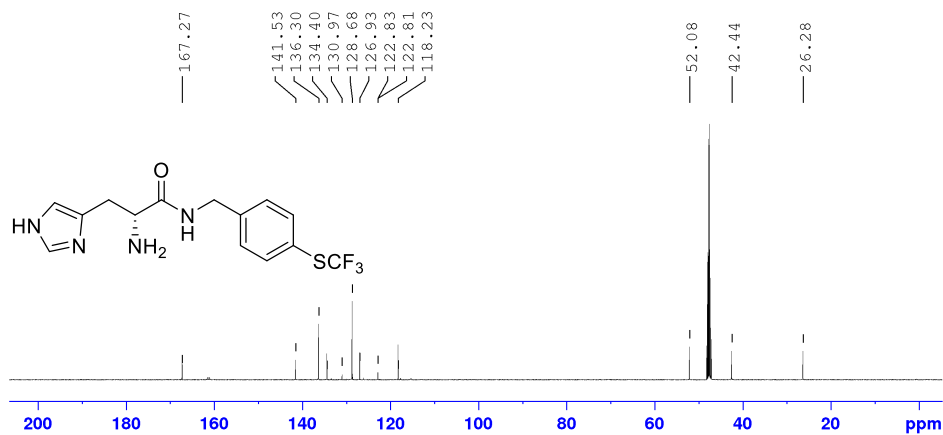


¹H NMR (500 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(4-(trifluoromethyl)thio)benzyl)propanamide (**5s**):



¹³C NMR (126 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(4-((trifluoromethyl)thio)benzyl)propanamide (**5s**):

SR 26-2 d 13C



```

Current Data Parameters
NAME      Dec30-2019-Flab
EXPNO    60
PROCNO   1

F2 - Acquisition Parameters
Date_    20191230
Time     18.22
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       512
DS       4
SWH      29761.904 Hz
FIDRES   0.454131 Hz
AQ       1.1010048 sec
RG       191.52
DW       16.800 usec
DE       10.00 usec
TE       300.0 K
D1       2.0000000 sec
D11      0.0300000 sec
TDO      1

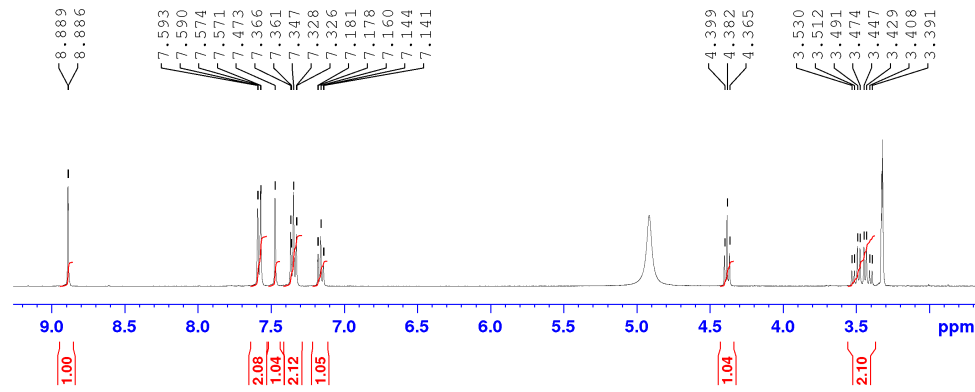
===== CHANNEL f1 =====
SFO1    125.5513451 MHz
NUC1     13C
P1       10.00 usec
PLW1     71.00000000 W

===== CHANNEL f2 =====
SFO2    499.2610621 MHz
NUC2     1H
CPDPRG2  waltz16
PCPD2    80.00 usec
PLW2     17.00000000 W
PLW12    0.26563001 W
PLW13    0.17000000 W

F2 - Processing parameters
SI       32768
SF       125.5387918 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
PC       1.40
    
```

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-phenylpropanamide (**6a**):

SR 73-1 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 7

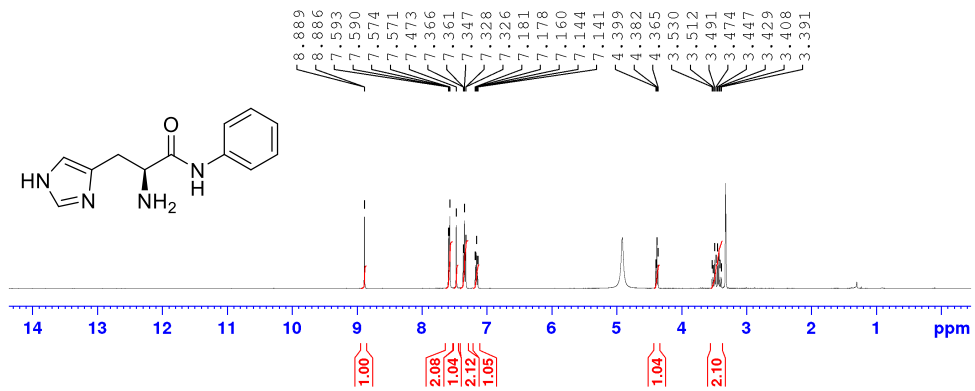


```
Current Data Parameters
NAME      Nov21-2020-PTLab
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20201121
Time     15:17
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zg30
ID       30046
SOLVENT  MeOD
NS       16
DS       1
SWH      8012.820 Hz
FIDRES   0.266685 Hz
AQ       1.8748704 sec
RG       256
DW       62.400 usec
DE       6.50 usec
TE       300.1 K
D1       6.00000000 sec
TDO      1

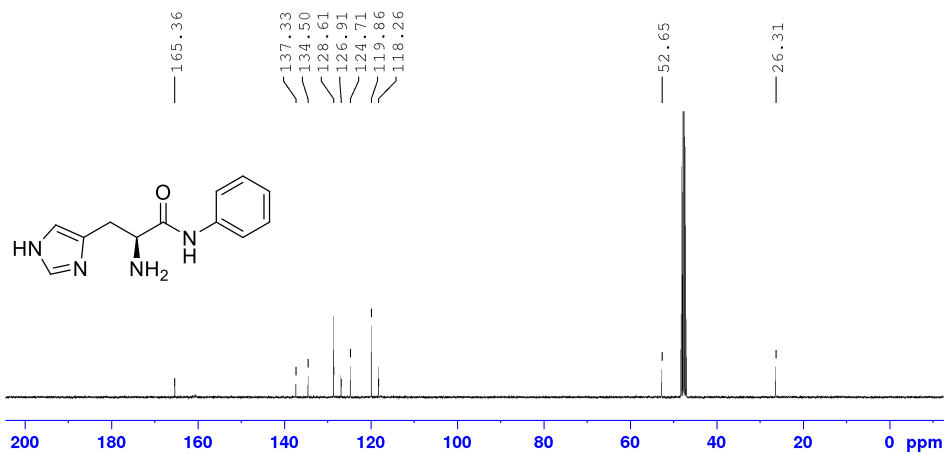
===== CHANNEL f1 =====
SF01    400.2821952 MHz
NUC1     1H
P1       10.86 usec
PLW1    17.00000000 W

F2 - Processing parameters
SI       131072
SF       400.2793692 MHz
WDW      EM
SSB      0
LB       0.20 Hz
GB       0
PC       1.00
```



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-phenylpropanamide (6a):

SR 73-1 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 7



```
Current Data Parameters
NAME      Nov21-2020-PTLab
EXPNO    20
PROCNO    1

F2 - Acquisition Parameters
Date_     20201121
Time      15.58
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
TD         65536
SOLVENT   MeOD
NS         512
DS         4
SWH        24038.461 Hz
FIDRES     0.366798 Hz
AQ         1.3631488 sec
RG         2050
DW         20.800 usec
DE         6.50 usec
TE         300.0 K
D1         2.0000000 sec
D11        0.0300000 sec
TD0        1

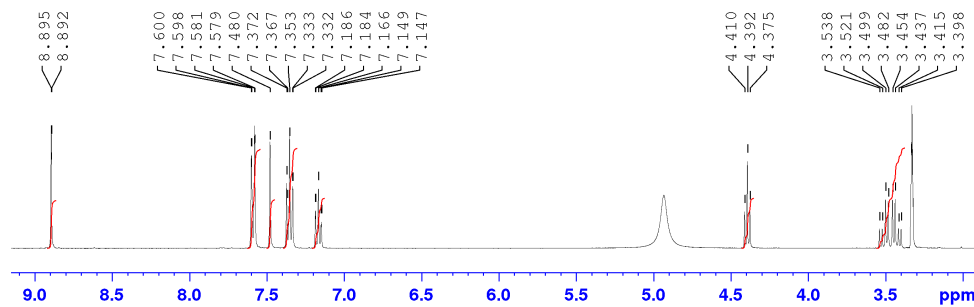
===== CHANNEL f1 =====
SFO1      100.6605506 MHz
NUC1       13C
P1         11.00 usec
PLW1       48.0000000 W

===== CHANNEL f2 =====
SFO2      400.2816011 MHz
NUC2       1H
CPDPRG[2] waltz16
PCPD2      90.00 usec
PLW2       17.0000000 W
PLW12      0.24753000 W
PLW13      0.20050000 W

F2 - Processing parameters
SI         32768
SF         100.6504861 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```

¹H NMR (400 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-phenylpropanamide (**6b**):

SR 72-1 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 24

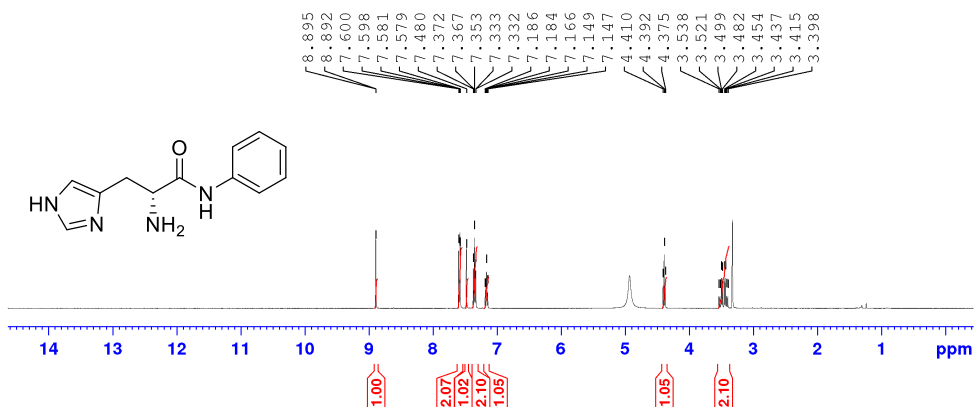


Current Data Parameters
 NAME Nov20-2020-PTLab
 EXPNO 60
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20201120
 Time 15.16
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 ID 30046
 SOLVENT MeOD
 NS 16
 DS 1
 SWH 8012.820 Hz
 FIDRES 0.266685 Hz
 AQ 1.8748704 sec
 RG 256
 DW 62.400 usec
 DE 6.50 usec
 TE 300.0 K
 D1 6.00000000 sec
 TDO 1

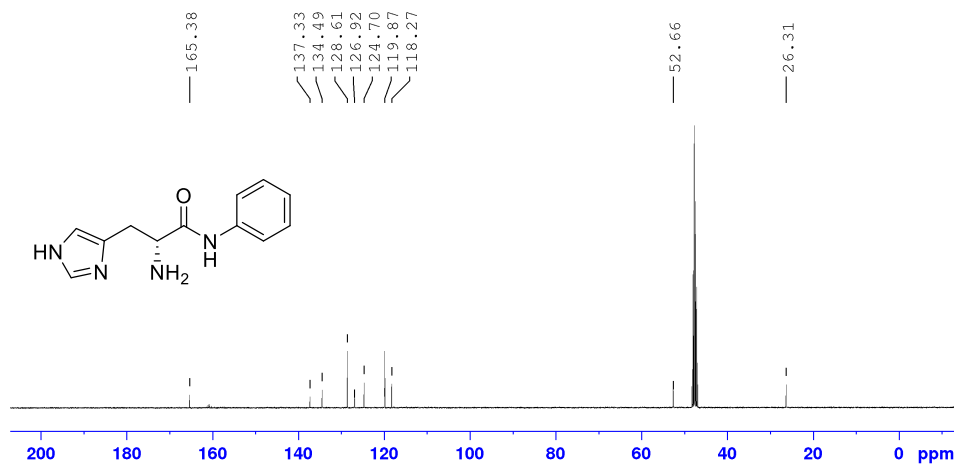
===== CHANNEL f1 =====
 SF01 400.2821952 MHz
 NUC1 1H
 P1 10.86 usec
 PLW1 17.00000000 W

F2 - Processing parameters
 SI 131072
 SF 400.2793607 MHz
 WDW EM
 SSB 0
 LB 0.20 Hz
 GB 0
 PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-phenylpropanamide (**6b**):

SR 72-1 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 7



```
Current Data Parameters
NAME      Nov20-2020-PTlab
EXPNO    100
PROCNO   1

F2 - Acquisition Parameters
Date_    20201120
Time     17.54
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       512
DS       4
SWH      24038.461 Hz
FIDRES   0.366798 Hz
AQ       1.3631488 sec
RG       2050
DW       20.800 usec
DE       6.50 usec
TE       300.0 K
D1       2.0000000 sec
D11      0.0300000 sec
TDO      1

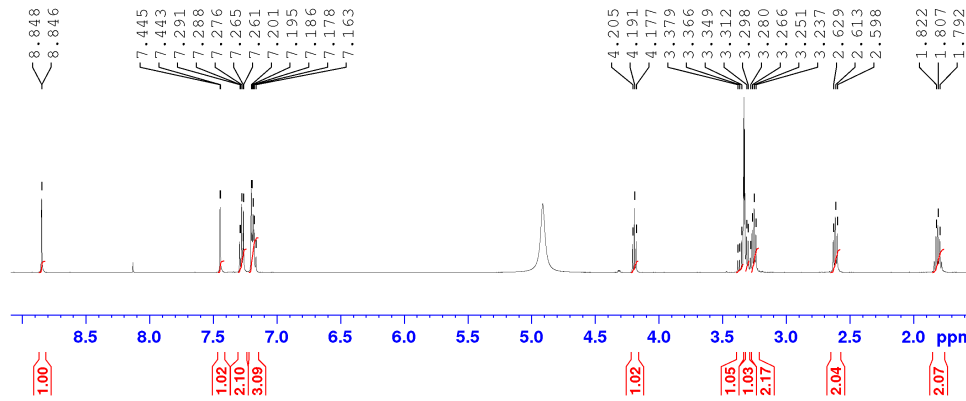
===== CHANNEL f1 =====
SFO1    100.6605506 MHz
NUC1    13C
P1      11.00 usec
PLW1    48.0000000 W

===== CHANNEL f2 =====
SFO2    400.2816011 MHz
NUC2    1H
CPDPRG2 waltz16
PCPD2   90.00 usec
PLW2    17.0000000 W
PLW12   0.24753000 W
PLW13   0.20050000 W

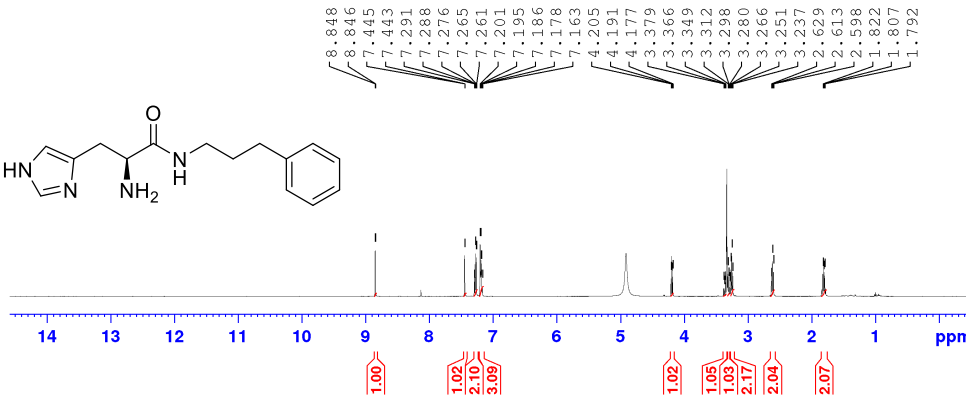
F2 - Processing parameters
SI      32768
SF      100.6504861 MHz
WDW     EM
SSB     0
LB      1.00 Hz
GB      0
PC      1.40
```

¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-phenylpropyl)propanamide (**7a**):

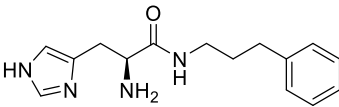
SR 27-1 d 2



Current Data Parameters
 NAME Oct31-2019-PTlab
 EXPNO 20
 PROCNO 1
 F2 - Acquisition Parameters
 Date_ 20191031
 Time 13.55
 INSTRUM spect
 PROBHD 5 mm PABBO BB/
 PULPROG zg30
 ID 65536
 SOLVENT MeOD
 NS 16
 DS 2
 SWH 9973.404 Hz
 FIDRES 0.152182 Hz
 AQ 3.2855382 sec
 RG 137.94
 DW 50.133 usec
 DE 6.50 usec
 TE 298.0 K
 D1 6.00000000 sec
 TDO 1

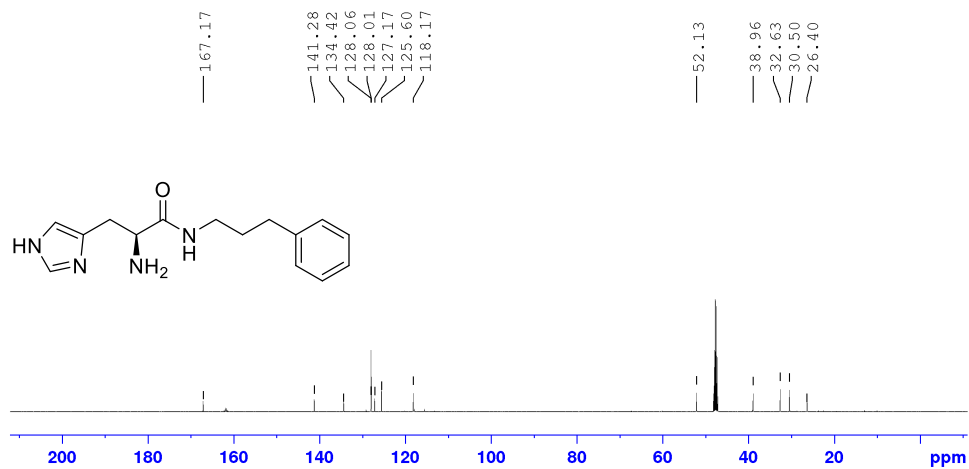


==== CHANNEL f1 =====
 SFO1 499.2621482 MHz
 NUC1 1H
 P1 10.00 usec
 PLM1 17.00000000 W
 F2 - Processing parameters
 SI 65536
 SF 499.2590651 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00



¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-phenylpropyl)propanamide (**7a**):

SR 27-1 d 13C



```
Current Data Parameters
NAME      Nov17-2019-FlLab
EXPNO    60
PROCNO   1

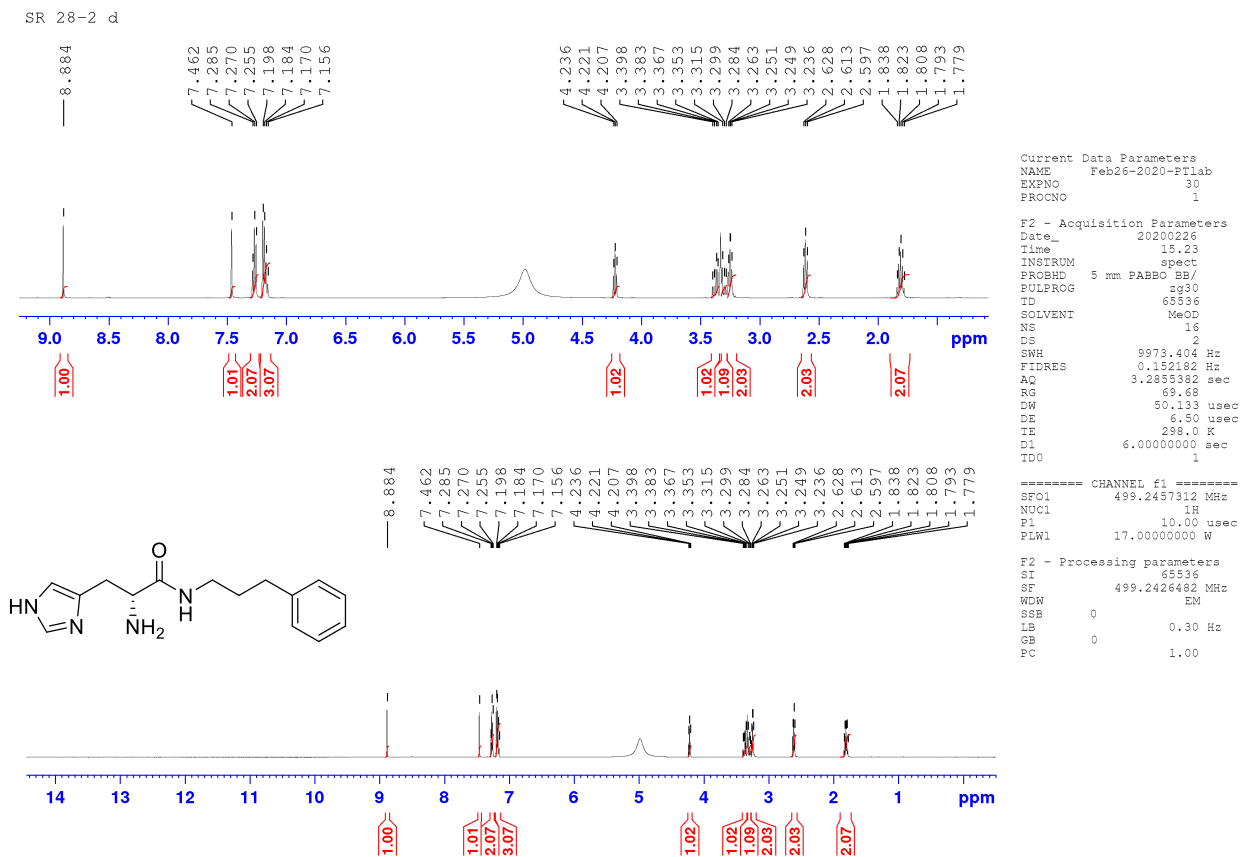
F2 - Acquisition Parameters
Date_    20191117
Time     19.49
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       512
DS       4
SWH      29761.904 Hz
FIDRES   0.454131 Hz
AQ       1.1010048 sec
RG       191.52
DW       16.900 usec
DE       10.00 usec
TE       300.0 K
D1       2.00000000 sec
D11      0.03000000 sec
TD0      1

===== CHANNEL f1 =====
SFO1    125.5513451 MHz
NUC1    13C
P1      10.00 usec
PLW1    71.00000000 W

===== CHANNEL f2 =====
SFO2    499.2610621 MHz
NUC2    1H
CPDPRG2 waltz16
PCPD2   80.00 usec
PLW2    17.00000000 W
PLW12   0.26563001 W
PLW13   0.17000000 W

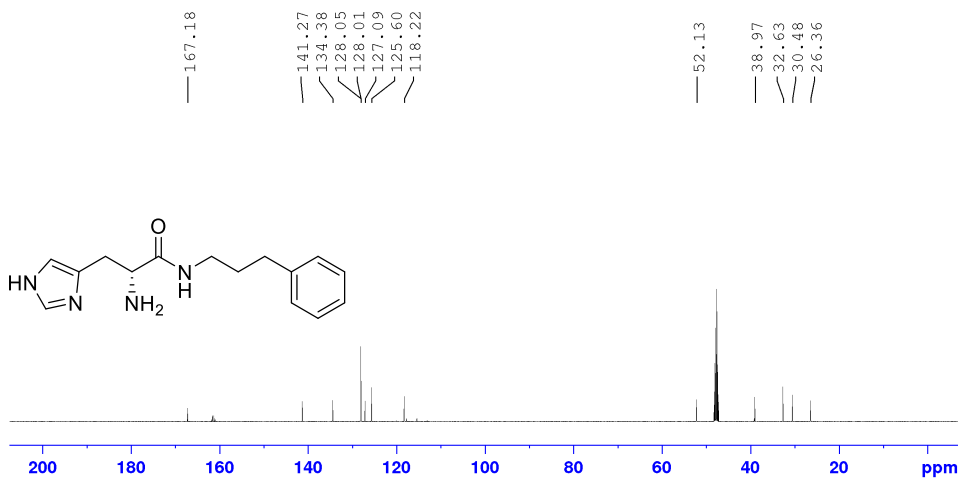
F2 - Processing parameters
SI      32768
SF      125.5387918 MHz
WDW     EM
SSB     0
LB      1.00 Hz
GB      0
PC      1.40
```


¹H NMR (500 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(3-phenylpropyl)propanamide (**7b**):



¹³C NMR (126 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(3-phenylpropyl)propanamide (**7b**):

SR 28-2 d 13C



Current Data Parameters
NAME Feb26-2020-PIlab
EXPNO 40
PROCNO 1

F2 - Acquisition Parameters
Date_ 20200226
Time 16.34
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
ID 65536
SOLVENT MeOD
NS 512
DS 4
SWH 29761.904 Hz
FIDRES 0.454131 Hz
AQ 1.1010048 sec
RG 191.52
DW 16.800 usec
DE 10.00 usec
TE 300.0 K
D1 2.0000000 sec
D11 0.0300000 sec
TD0 1

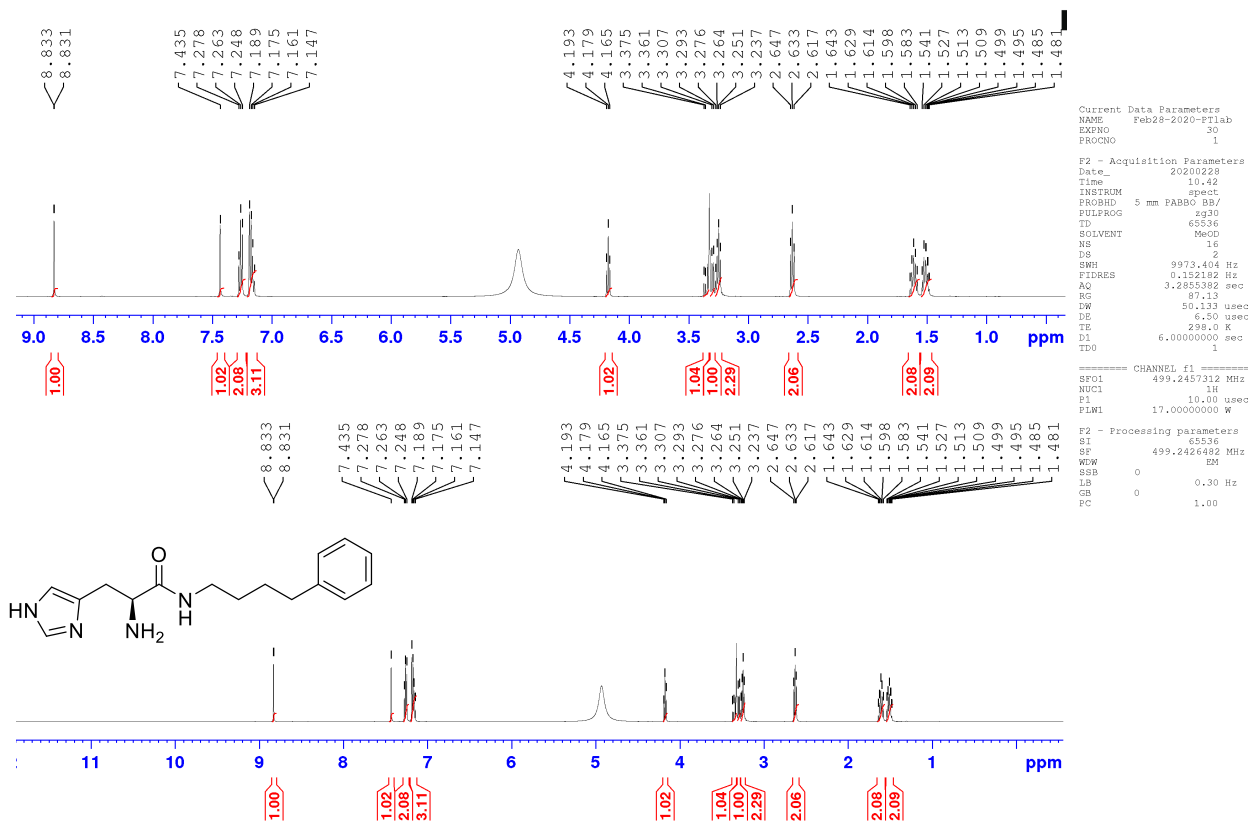
==== CHANNEL f1 =====
SFO1 125.5472166 MHz
NUC1 13C
P1 10.00 usec
PLW1 71.0000000 W

==== CHANNEL f2 =====
SFO2 499.2446452 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 80.00 usec
PLW2 17.0000000 W
PLW12 0.26563001 W
PLW13 0.17000000 W

F2 - Processing parameters
SI 32768
SF 125.5346637 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

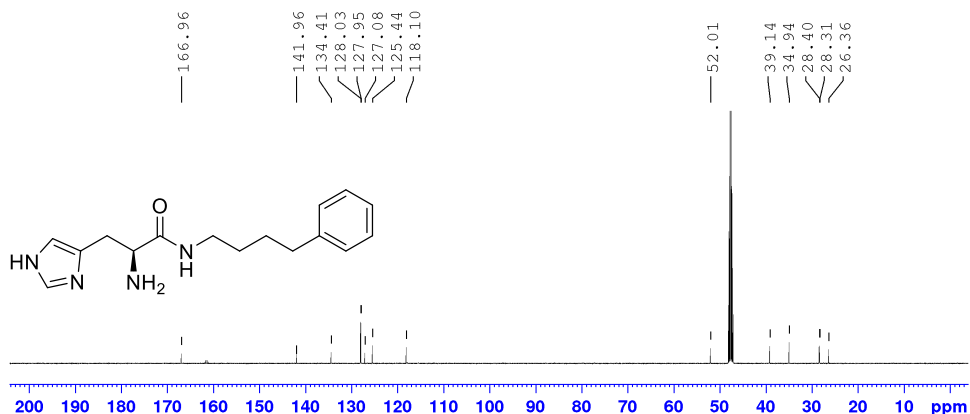
¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-phenylbutyl)propanamide (**8a**):

SR 33-1 d



¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-phenylbutyl)propanamide (**8a**):

SR 33-1 d 13C



```
Current Data Parameters
NAME      Feb28-2020-PT1ab
EXPNO    40
PROCNO   1

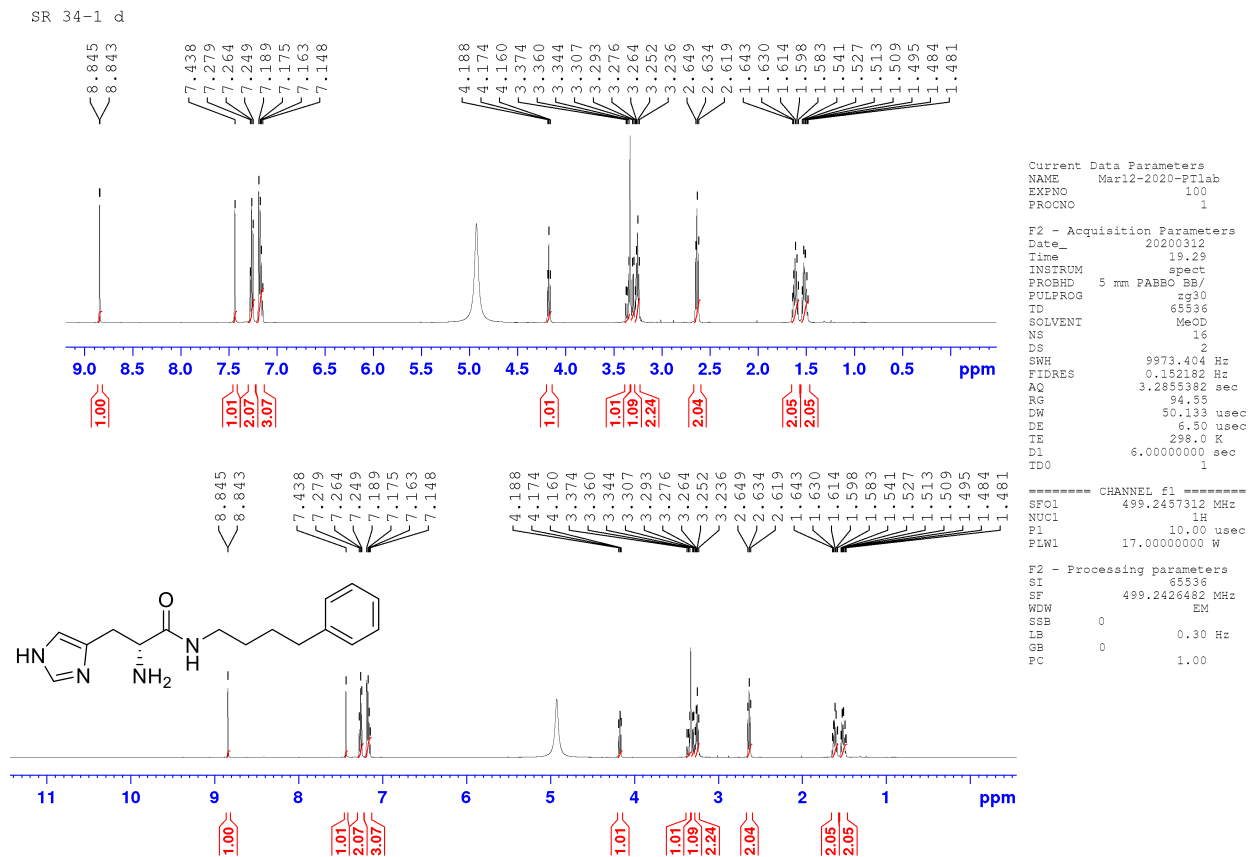
F2 - Acquisition Parameters
Date_    20200228
Time     11.46
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       512
DS       4
SWH      29761.904 Hz
FIDRES   0.454131 Hz
AQ       1.1010048 sec
RG       191.52
DW       16.800 usec
DE       10.00 usec
TE       300.0 K
D1       2.0000000 sec
D11      0.0300000 sec
TDO      1

===== CHANNEL f1 =====
SFO1     125.5472166 MHz
NUC1     13C
P1       10.00 usec
PLW1     71.0000000 W

===== CHANNEL f2 =====
SFO2     499.2446452 MHz
NUC2     1H
CPDPRG[2] waltz16
PCPD2    80.00 usec
PLW2     17.0000000 W
PLW12    0.26563001 W
PLW13    0.17000000 W

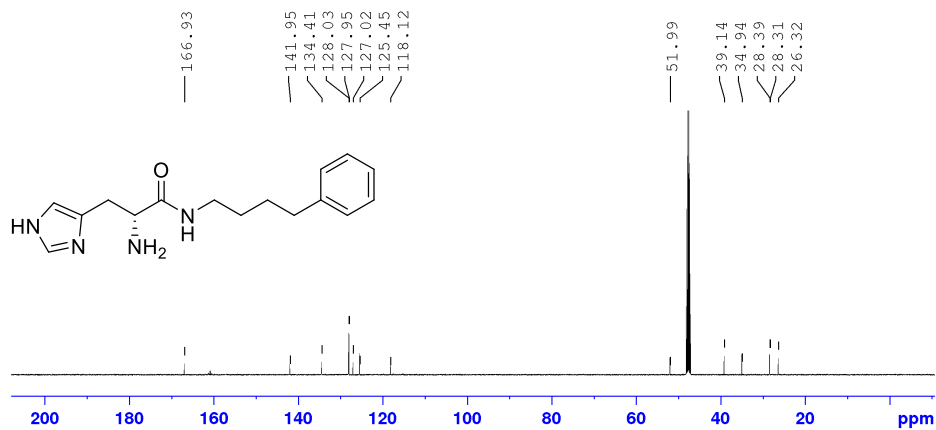
F2 - Processing parameters
SI       32768
SF       125.5346637 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
FC       1.40
```

¹H NMR (500 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(4-phenylbutyl)propanamide (**8b**):



¹³C NMR (126 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-phenylbutyl)propanamide (**8b**):

SR 34-1 d 13C



```

Current Data Parameters
NAME      Mari2-2020-Fl1ab
EXPNO    110
PROCNO   1

F2 - Acquisition Parameters
Date_    20200312
Time     20.05
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD        65536
SOLVENT  MeOD
NS        512
DS         4
SWH       29761.904 Hz
FIDRES    0.454131 Hz
AQ         1.1010048 sec
RG         191.52
DW         16.800 usec
DE         10.00 usec
TE         300.0 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1
    
```

```

===== CHANNEL f1 =====
SFO1    125.5472166 MHz
NUC1     13C
P1       10.00 usec
PLW1     71.00000000 W

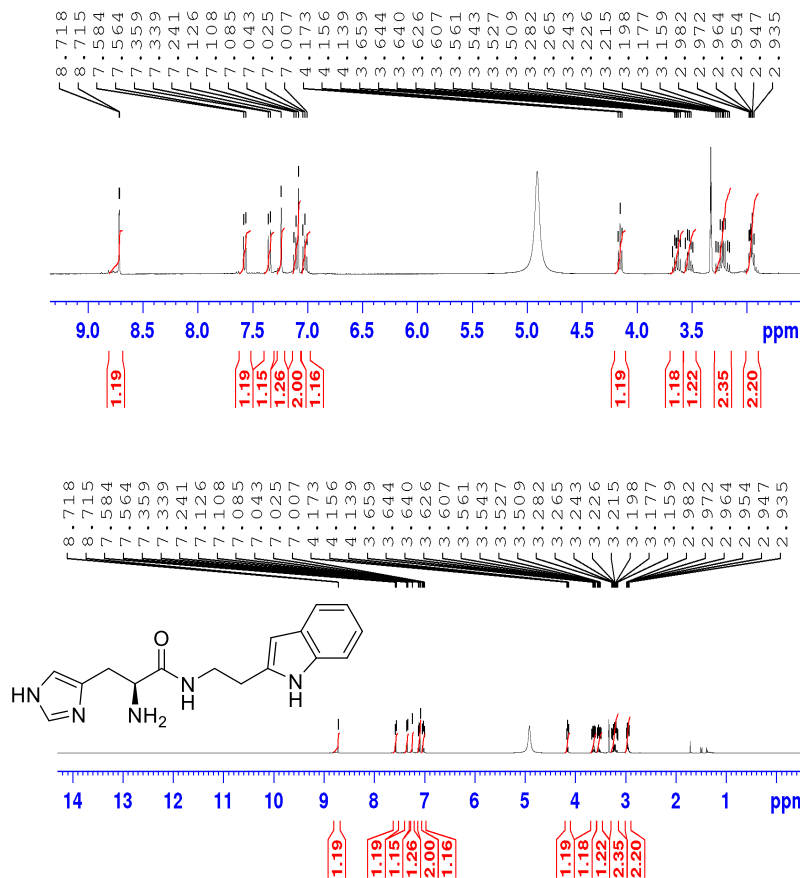
===== CHANNEL f2 =====
SFO2    499.2446452 MHz
NUC2     1H
CPDPRG[2]  waltz16
PCPD2    80.00 usec
PLW2    17.00000000 W
PLW12   0.26563001 W
PLW13   0.17000000 W

F2 - Processing parameters
SI        32768
SF        125.5346637 MHz
WDW       EM
SSB       0
LB        1.00 Hz
GB        0
PC        1.40
    
```

¹H NMR (400 MHz, MeOH-d₄), (S)-N-(2-(1H-indol-3-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

(9d):

SR 7-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 10



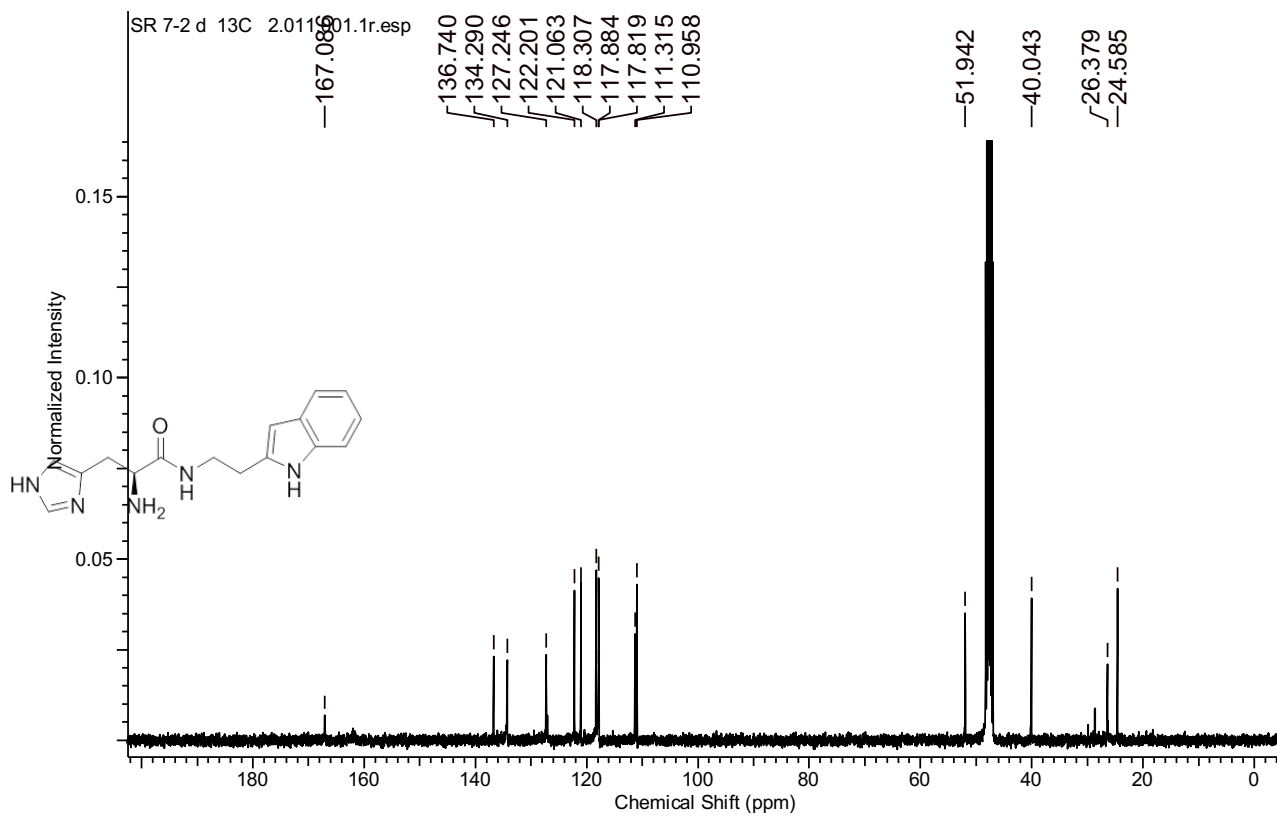
Current Data Parameters
NAME Dec18-2020-PTLab
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201218
Time 22.27
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 6.00000000 sec
TDO 1

===== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00

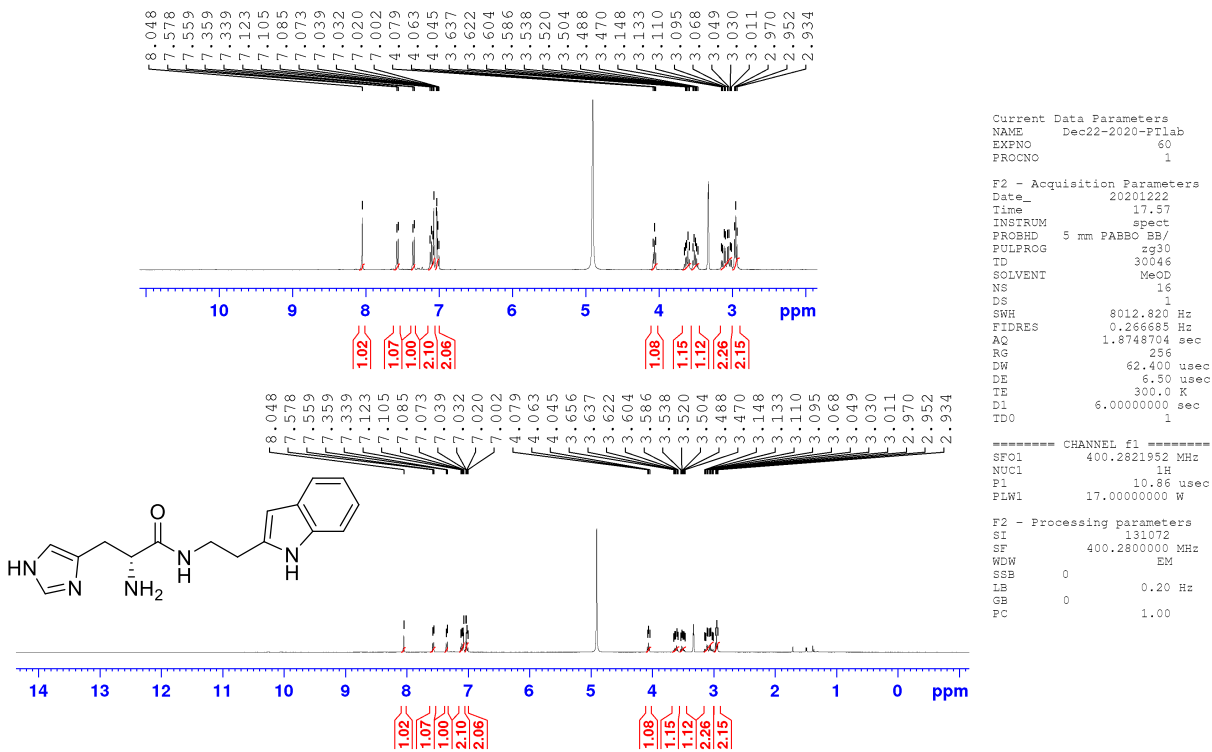
(9d):



¹H NMR (400 MHz, MeOH-d₄), (R)-N-(2-(1H-indol-3-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

(9e):

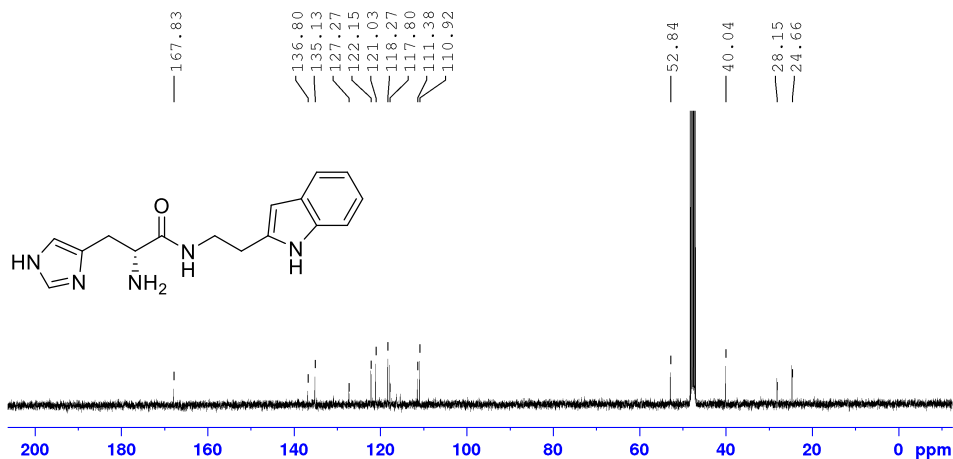
SR 8-3 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 3



¹³C NMR (100 MHz, MeOH-d₄), (R)-N-(2-(1H-indol-3-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

(9e):

SR 8-3 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 17



Current Data Parameters
NAME Dec24-2020-PTLab
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201224
Time 20.36
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zgpg30
TD 65336
SOLVENT MeOD
NS 512
DS 4
SWH 24038.461 Hz
FIDRES 0.366798 Hz
AQ 1.3631488 sec
RG 2050
DW 20.800 usec
DE 6.50 usec
TE 300.0 K
D1 2.0000000 sec
D11 0.0300000 sec
TDO 1

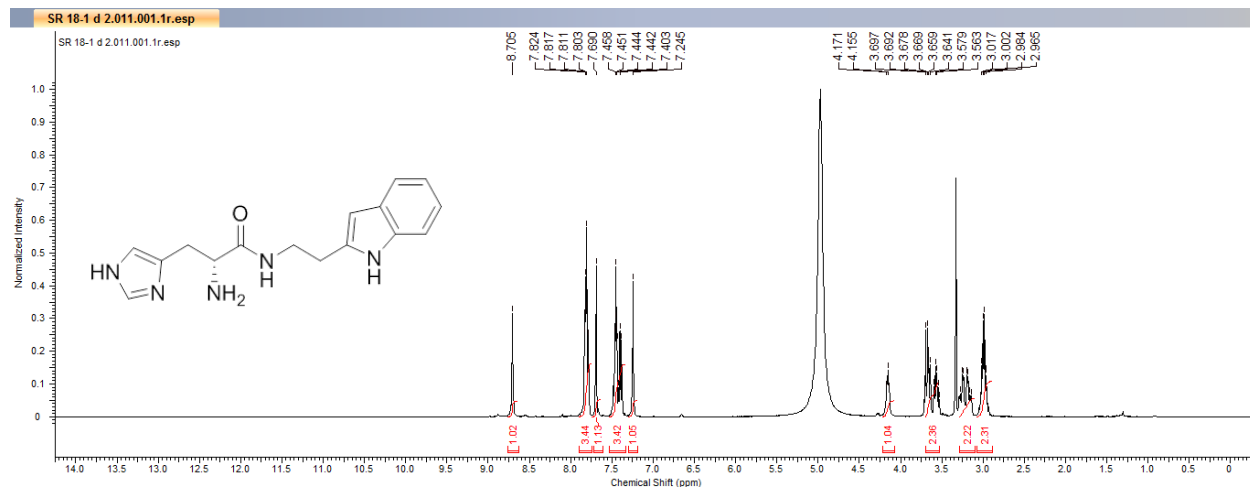
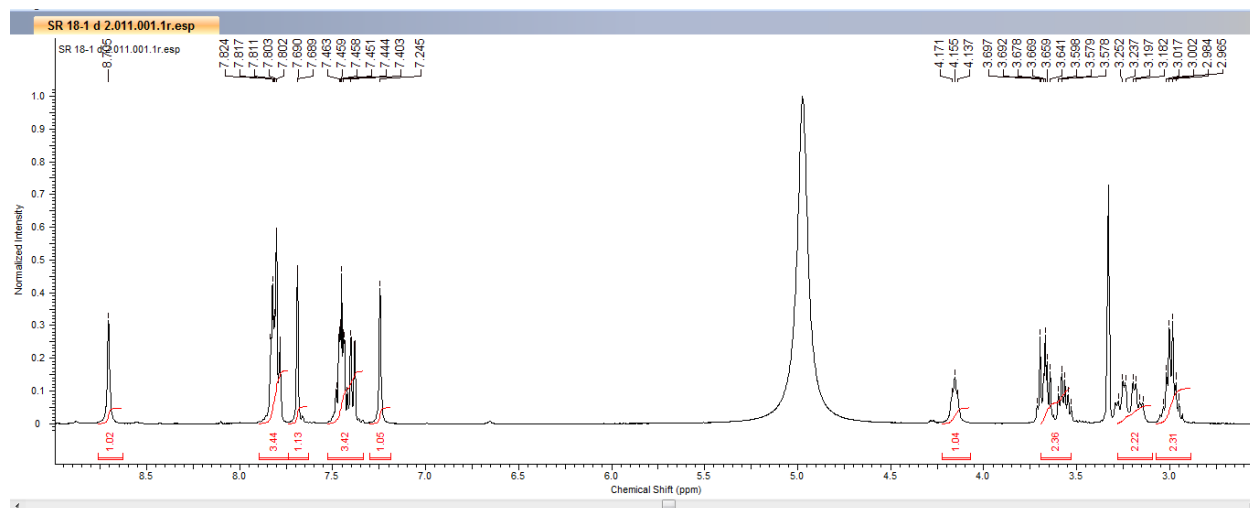
=====
CHANNEL f1
SFO1 100.6505506 MHz
NUC1 13C
P1 11.00 usec
PLW1 48.0000000 W

=====
CHANNEL f2
SFO2 400.2816011 MHz
NUC2 1H
CPDPRG2 waltz16
PCPD2 90.00 usec
PLW2 17.0000000 W
PLW12 0.24753000 W
PLW13 0.20050000 W

F2 - Processing parameters
SI 32768
SF 100.6504861 MHz
WDW EM
SSB 0
LB 1.00 Hz
GB 0
PC 1.40

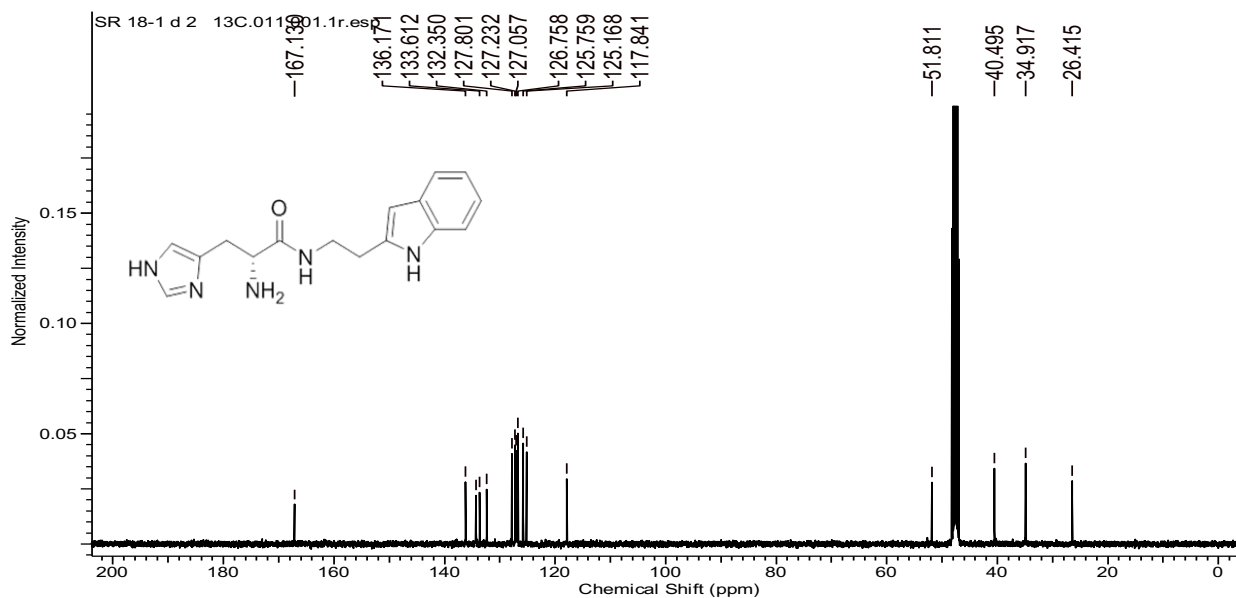
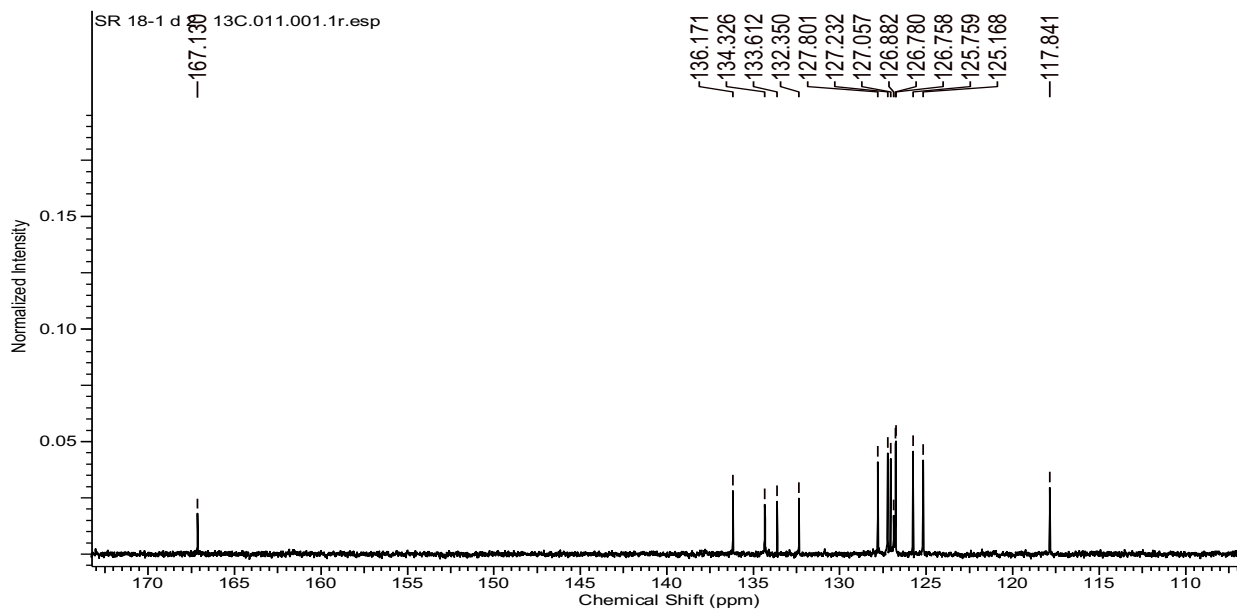
¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(naphthalen-2-yl)ethyl)propanamide

(9f):



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(naphthalen-2-yl)ethyl)propanamide

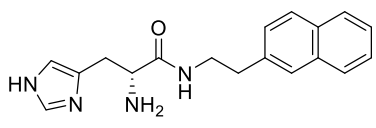
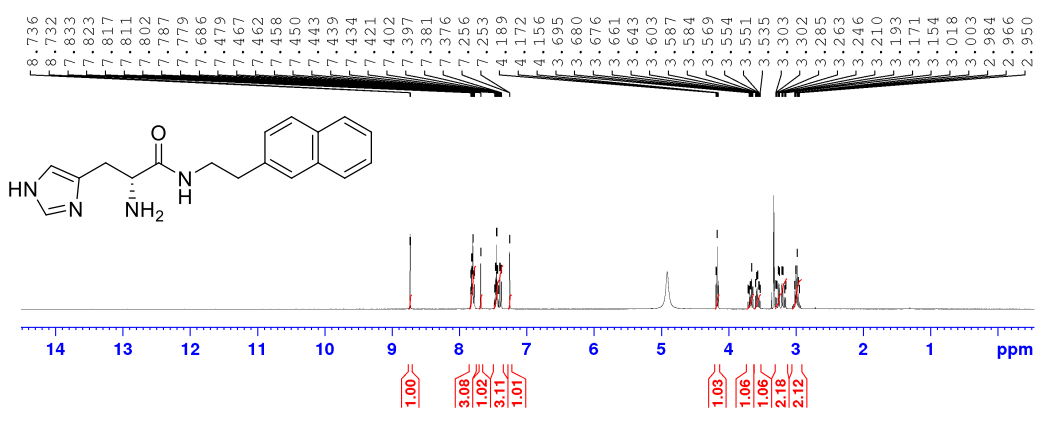
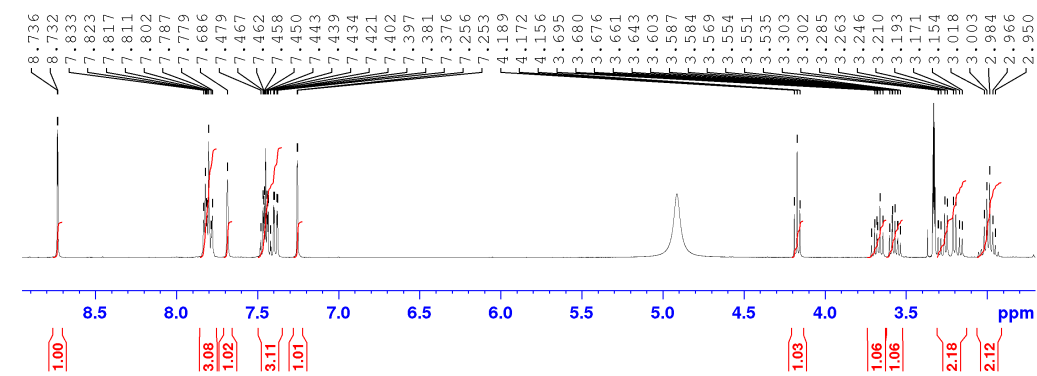
(9f):



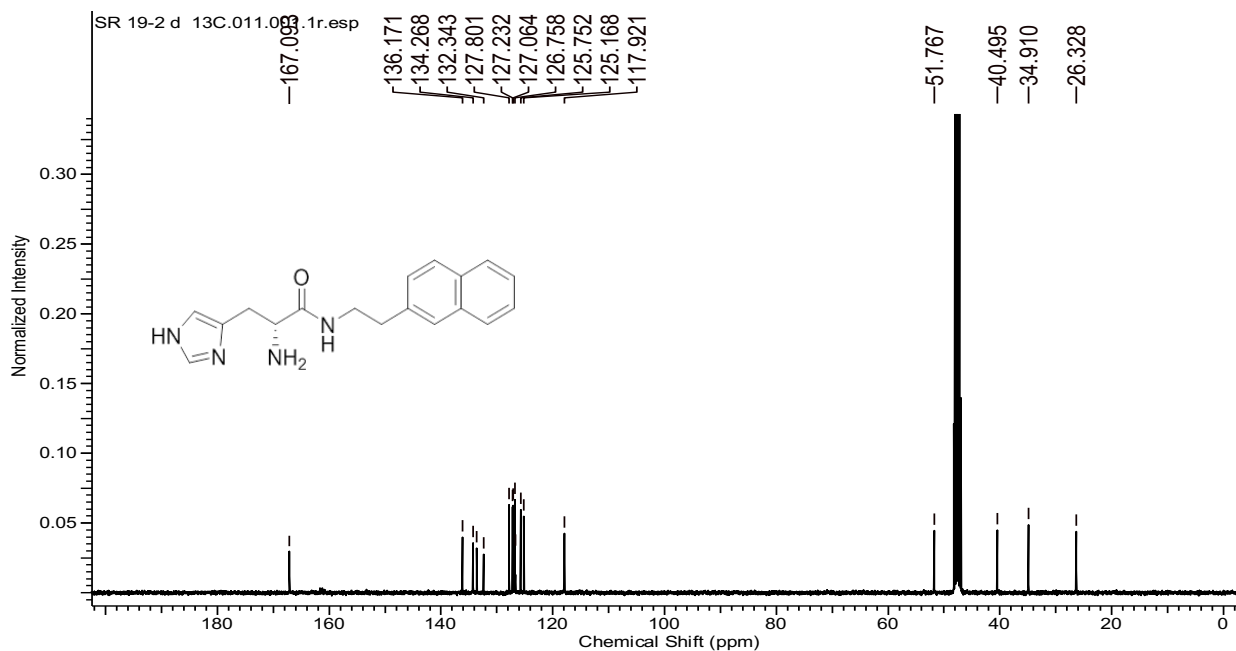
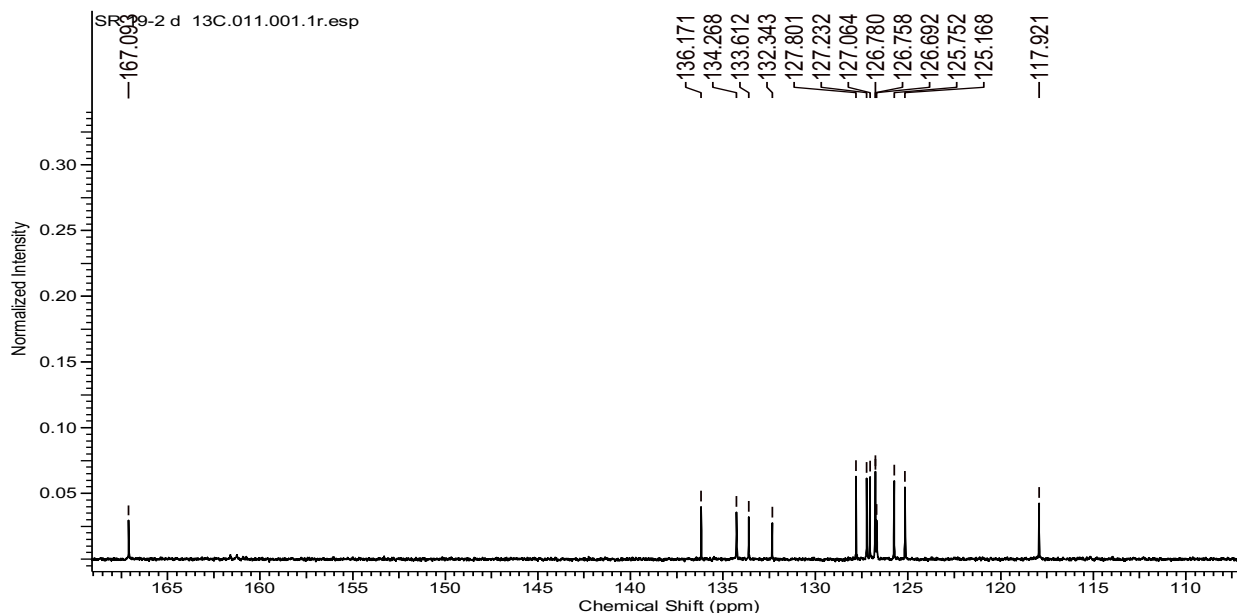
¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(naphthalen-2-yl)ethyl)propanamide

(9g):

SR 19-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 10

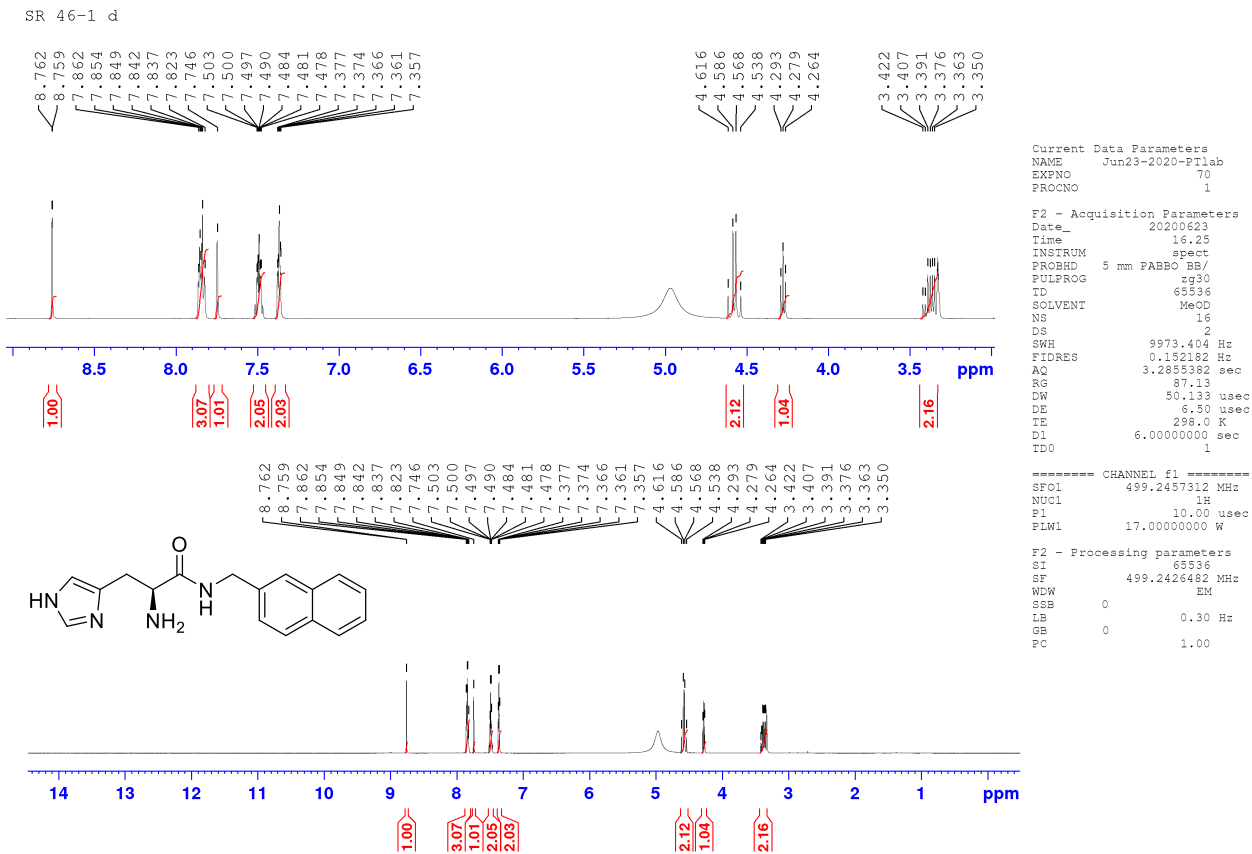


(9g):



¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-2-ylmethyl)propanamide

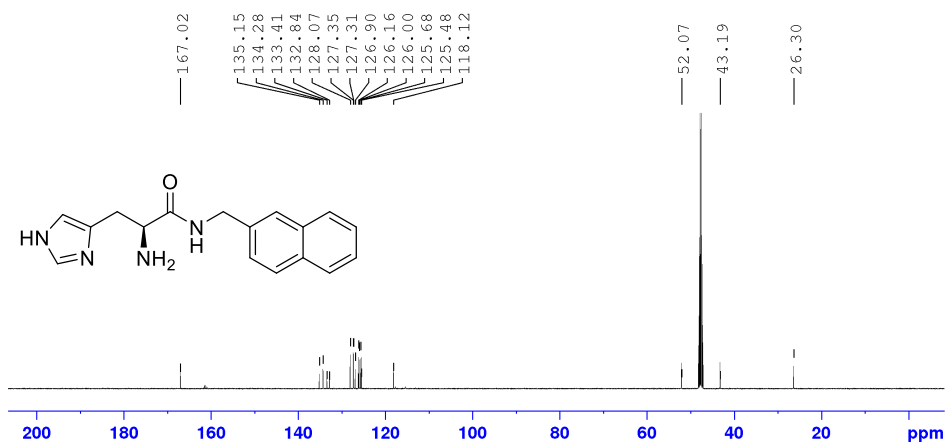
(10a):



¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-2-ylmethyl)propanamide

(10a):

SR 46-1 d 13C



```
Current Data Parameters
NAME      Jun23-2020-F1lab
EXPNO     80
PROCNO    1

F2 - Acquisition Parameters
Date_     20200623
Time      18.05
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
ID        65536
SOLVENT   MeOD
NS        512
DS        4
SWH        29761.904 Hz
FIDRES     0.454131 Hz
AQ         1.1010048 sec
RG         191.52
DW         16.800 usec
DE         10.00 usec
TE         300.0 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1

===== CHANNEL f1 =====
SFO1      125.5472166 MHz
NUC1       13C
P1         10.00 usec
PLW1       71.00000000 W

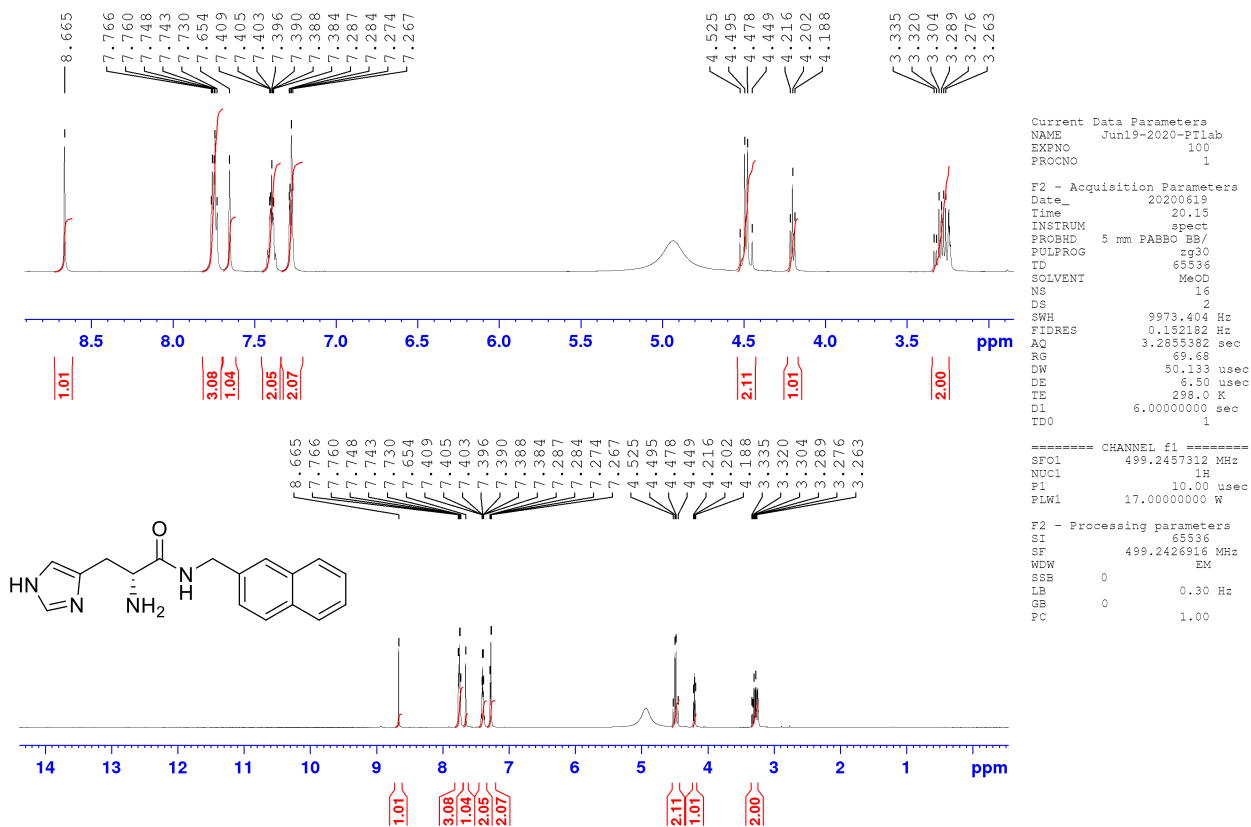
===== CHANNEL f2 =====
SFO2      499.2446452 MHz
NUC2       1H
CPDPRG[2]  waltz16
PCPD2     80.00 usec
PLW2      17.00000000 W
PLW12     0.26563001 W
PLW13     0.17000000 W

F2 - Processing parameters
SI         32768
SF         125.5346637 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```


¹H NMR (500 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-2-ylmethyl)propanamide

(10b):

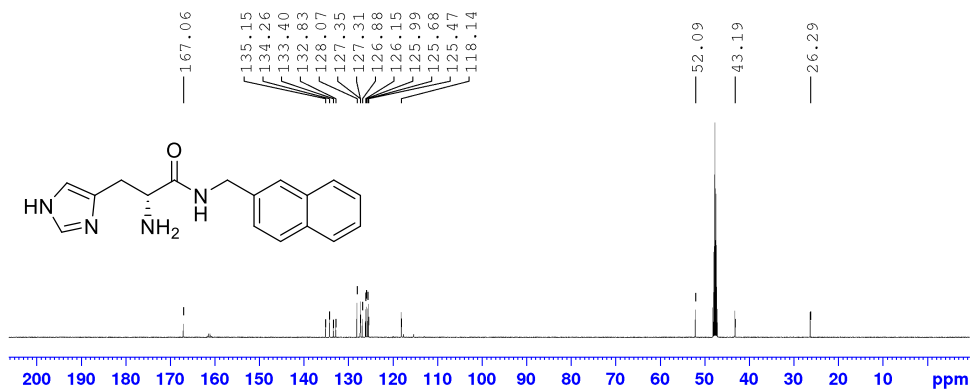
SR 45-1 d



¹³C NMR (126 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-2-ylmethyl)propanamide

(10b):

SR 45-1 d 13 C



```
Current Data Parameters
NAME      Jun19-2020-PTlab
EXPNO     110
PROCNO    1

F2 - Acquisition Parameters
Date_     20200619
Time      20.49
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
TD         65536
SOLVENT   MeOD
NS         512
DS         4
SWH        29761.904 Hz
FIDRES     0.454131 Hz
AQ         1.1010048 sec
RG         191.52
DW         16.800 usec
DE         10.00 usec
TE         300.0 K
D1         2.00000000 sec
D11        0.03000000 sec
TD0        1

===== CHANNEL f1 =====
SFO1      125.5472166 MHz
NUC1       13C
P1         10.00 usec
PLW1       71.00000000 W

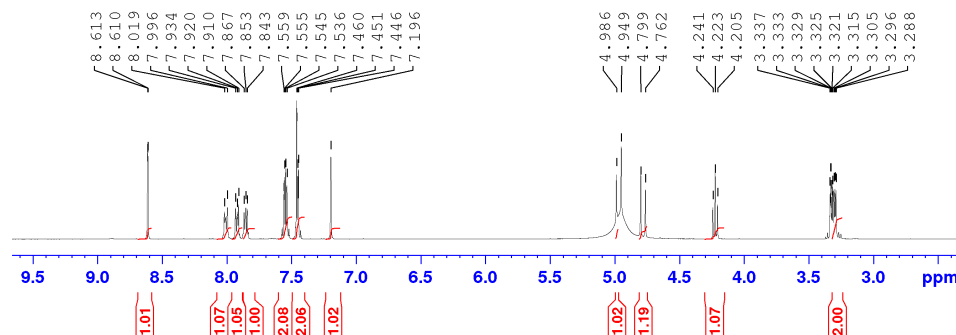
===== CHANNEL f2 =====
SFO2      499.2446452 MHz
NUC2       1H
CPDPRG[2] waltz16
PCPD2     80.00 usec
PLW2      17.00000000 W
PLW12     0.26563001 W
PLW13     0.17000000 W

F2 - Processing parameters
SI         32768
SF         125.5346637 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```

¹H NMR (400 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-1-ylmethyl)propanamide

(10c):

SR 9-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 4

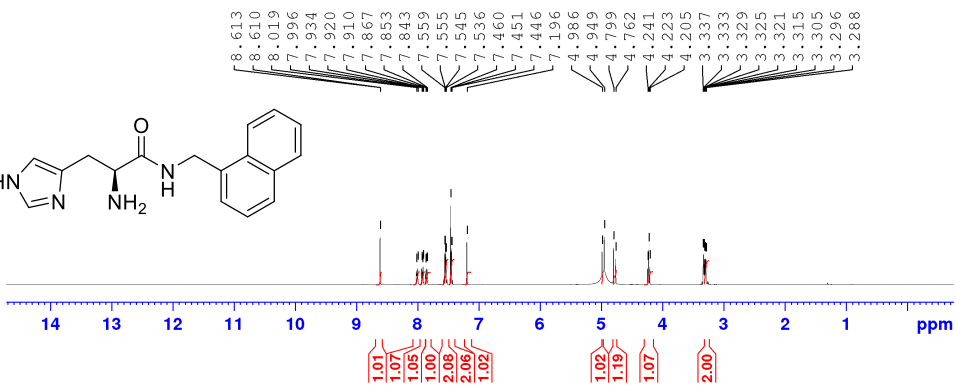
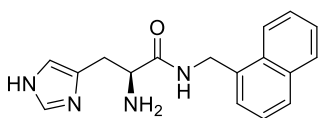


Current Data Parameters
NAME Dec31-2020-PTLab
EXPNO 80
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201231
Time 19.05
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30046
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266685 Hz
AQ 1.8748704 sec
RG 256
DM 62.400 usec
DE 6.50 usec
TE 300.1 K
D1 6.00000000 sec
TD0 1

===== CHANNEL f1 =====
SFO1 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

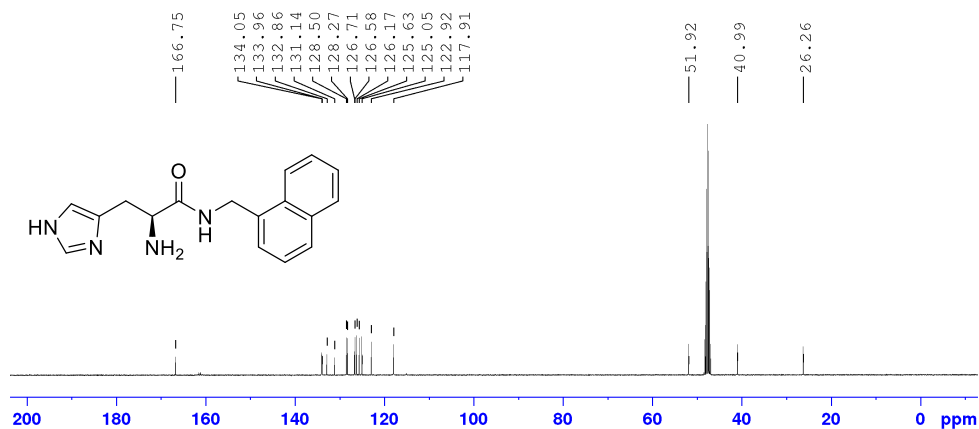
F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SBB 0
LB 0.20 Hz
GB 0
PC 1.00



¹³C NMR (100 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-1-ylmethyl)propanamide

(10c):

SR 9-2 d 13C
C13CPD MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 4



```
Current Data Parameters
NAME      Dec31-2020-PTLab
EXPNO    50
PROCNO   1

F2 - Acquisition Parameters
Date_    20201231
Time     19.48
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       512
DS       4
SWH      24038.461 Hz
FIDRES   0.366798 Hz
AQ       1.3631488 sec
RG       2050
DW       20.800 usec
DE       6.50 usec
TE       300.0 K
D1       2.00000000 sec
D11      0.03000000 sec
TDO      1

===== CHANNEL f1 =====
SFO1    100.6605506 MHz
NUC1     13C
P1      11.00 usec
PLW1    48.00000000 W

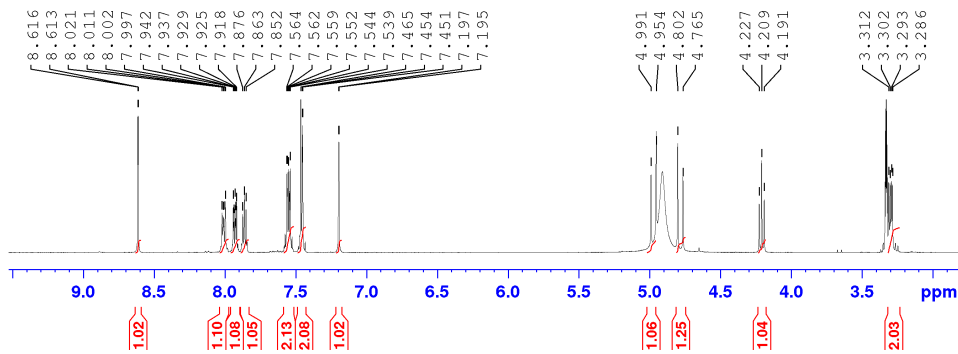
===== CHANNEL f2 =====
SFO2    400.2816011 MHz
NUC2     1H
CPDPRG2  waltz16
PCPD2    90.00 usec
PLW2    17.00000000 W
PLW3    0.24753000 W
PLW4    0.20050000 W

F2 - Processing parameters
SI       32768
SF       100.6504861 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
PC       1.40
```

¹H NMR (400 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-1-ylmethyl)propanamide

(10d):

SR 10-2 d
zg30 MeOD {C:\Bruker\TopSpin3.2\Iconnmr} PTLab 10

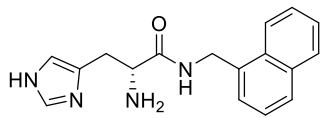
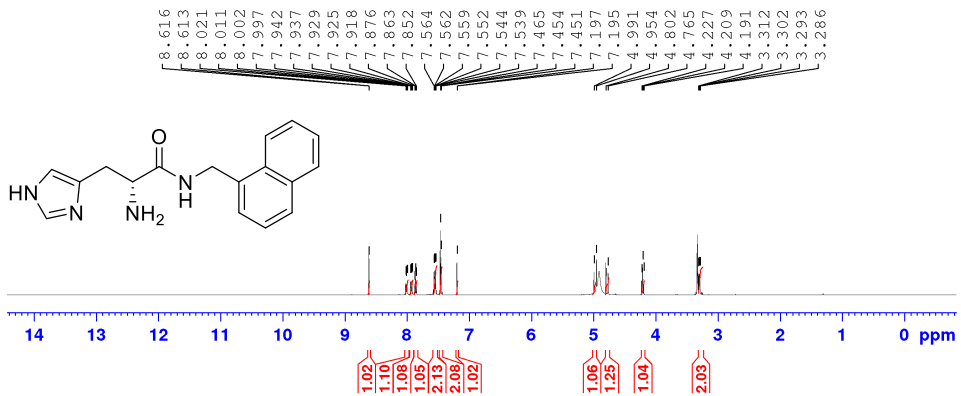


Current Data Parameters
NAME Nov28-2020-PTLab
EXPNO 10
PROCNO 1

F2 - Acquisition Parameters
Date_ 20201128
Time 16.55
INSTRUM spect
PROBHD 5 mm PABBO BB/
PULPROG zg30
TD 30048
SOLVENT MeOD
NS 16
DS 1
SWH 8012.820 Hz
FIDRES 0.266665 Hz
AQ 1.8748704 sec
RG 256
DW 62.400 usec
DE 6.50 usec
TE 300.2 K
D1 6.00000000 sec
D11 1

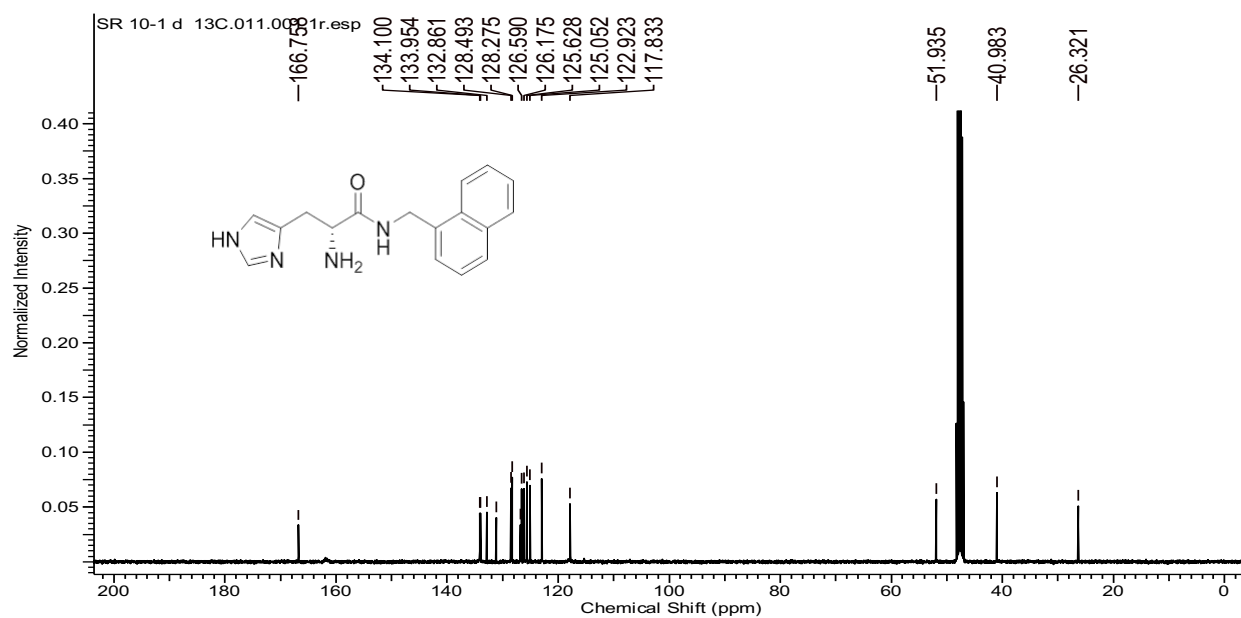
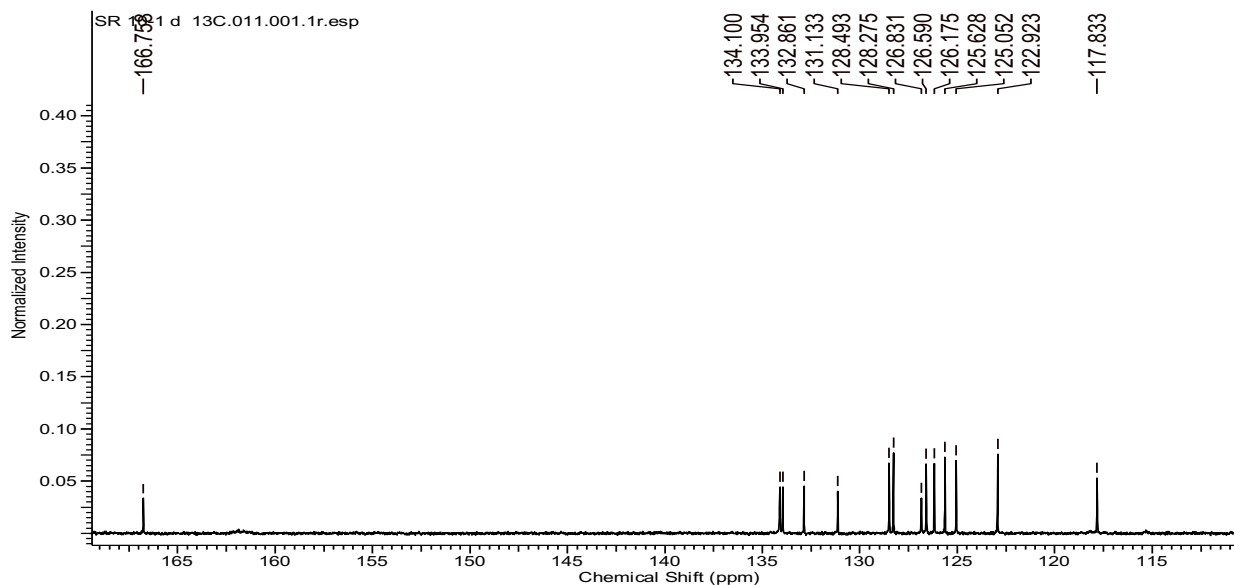
==== CHANNEL f1 =====
SF01 400.2821952 MHz
NUC1 1H
P1 10.86 usec
PLW1 17.00000000 W

F2 - Processing parameters
SI 131072
SF 400.2800000 MHz
WDW EM
SSB 0
LB 0.20 Hz
GB 0
PC 1.00



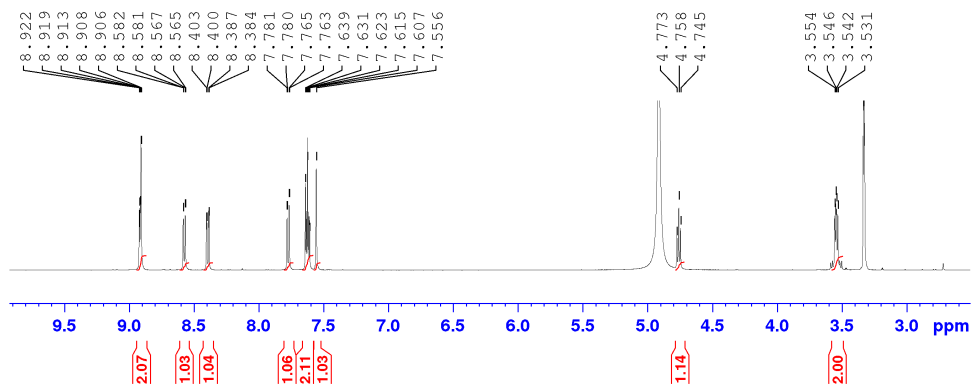
¹³C NMR (100 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-1-ylmethyl)propanamide

(10d):



¹H NMR (500 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(quinolin-8-yl)propanamide (**11a**):

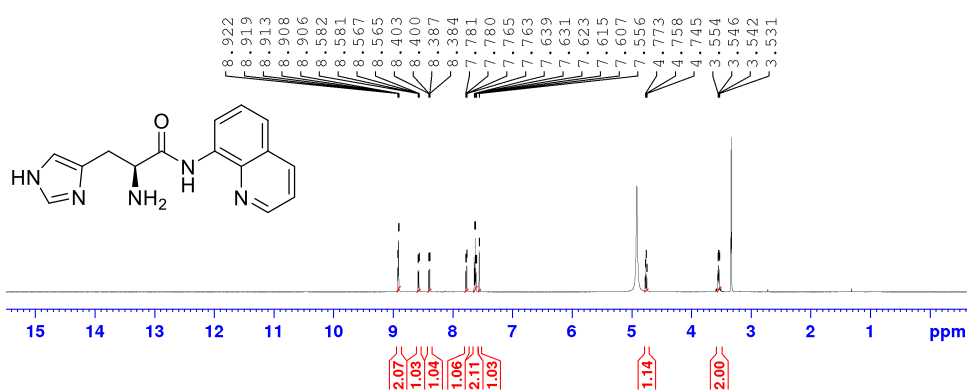
SR 23-1 d



```

Current Data Parameters
NAME      Nov15-2019-r11ab
EXPNO    20
PROCNO   1

F2 - Acquisition Parameters
Date_    20191115
Time     19.21
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zg30
TD       65536
SOLVENT  MeOD
NS       16
DS       2
SWH      9973.404 Hz
FIDRES   0.152182 Hz
AQ       3.285532 sec
RG       152.34
DW       50.133 usec
DE       6.50 usec
TE       298.0 K
D1       6.00000000 sec
TD0      1
    
```



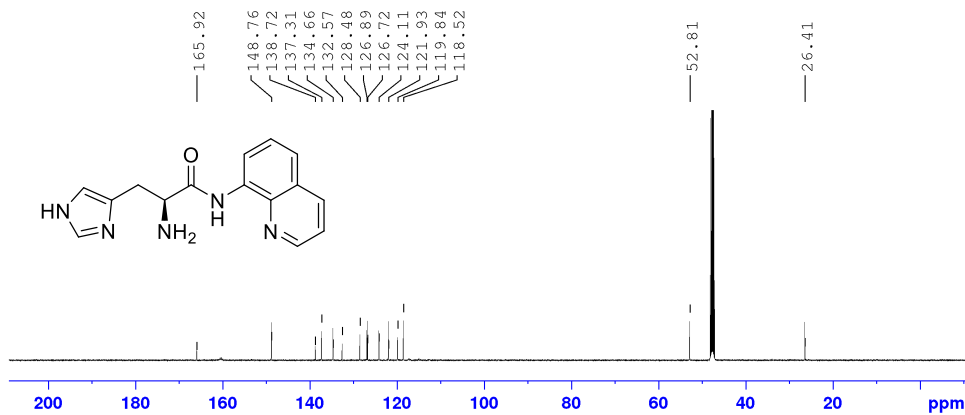
```

----- CHANNEL f1 -----
SF01    499.2621482 MHz
NUC1     1H
PI       10.00 usec
PLW1    17.00000000 W

F2 - Processing parameters
SI       65536
SF       499.2590651 MHz
WDW      EM
SSB      0
LB       0.30 Hz
GB       0
PC       1.00
    
```

¹³C NMR (126 MHz, MeOH-d₄), (S)-2-amino-3-(1H-imidazol-4-yl)-N-(quinolin-8-yl)propanamide (**11a**):

SR 23-1 d 13 C



```

Current Data Parameters
NAME      Nov15-2019-Pr1ab
EXPNO    50
PROCNO    1

F2 - Acquisition Parameters
Date_    20191115
Time     20.56
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zgpg30
TD       65536
SOLVENT  MeOD
NS       512
DS       4
SWH      29761.904 Hz
FIDRES   0.454131 Hz
AQ       1.1010048 sec
RG       191.52
DW       16.800 usec
DE       10.00 usec
TE       300.0 K
D1       2.0000000 sec
D11      0.0300000 sec
TDO      1

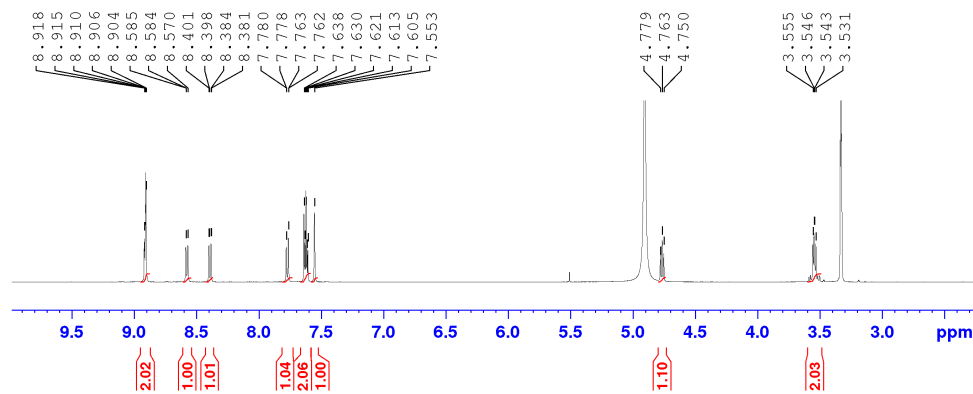
===== CHANNEL f1 =====
SF01     125.9513451 MHz
NUC1     13C
P1       10.00 usec
PLW1     71.00000000 W

===== CHANNEL f2 =====
SF02     499.2610621 MHz
NUC2     1H
CPDPRG2  waltz16
PCPD2    80.00 usec
PLW2     17.00000000 W
PLW12    0.26563001 W
PLW13    0.17000000 W

F2 - Processing parameters
SI       32768
SF       125.5387918 MHz
WDW      EM
SSB      0
LB       1.00 Hz
GB       0
PC       1.40
    
```


¹H NMR (500 MHz, MeOH-d₄), (*R*)-2-amino-3-(1*H*-imidazol-4-yl)-*N*-(quinolin-8-yl)propanamide (**11b**):

SR 24-1 d



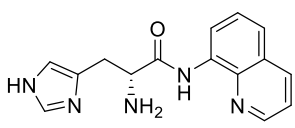
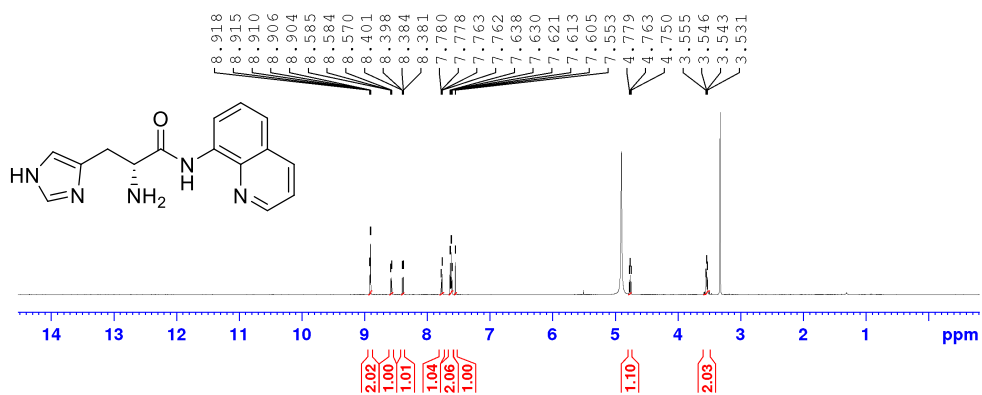
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Current Data Parameters
NAME      Nov15-2019-P1lab
EXPNO    10
PROCNO   1

F2 - Acquisition Parameters
Date_    20191115
Time     8.59
INSTRUM  spect
PROBHD   5 mm PABBO BB/
PULPROG  zg30
TD        65536
SOLVENT  MeOH
NS        16
DS        2
SWH       9973.404 Hz
FIDRES    0.152182 Hz
AQ        3.285382 sec
RG        170.03
DW        50.133 usec
DE        6.50 usec
TE        298.0 K
D1        6.0000000 sec
TD0       1

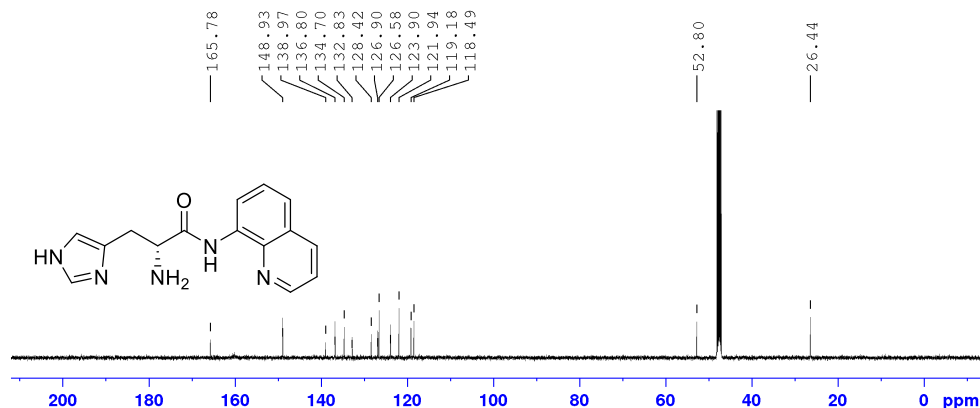
===== CHANNEL f1 =====
SF01     499.2621482 MHz
NUC1     1H
P1       10.00 usec
PLW1    17.00000000 W

F2 - Processing parameters
SI        65536
SF        499.2590651 MHz
WDW       EM
SSB       0
LB        0.30 Hz
GB        0
PC        1.00
    
```



¹³C NMR (126 MHz, MeOH-d₄), (R)-2-amino-3-(1H-imidazol-4-yl)-N-(quinolin-8-yl)propanamide (**11b**):

SR 24 -1 d 13C



```
Current Data Parameters
NAME      Nov15-2019-PTlab
EXPNO     30
PROCNO    1

F2 - Acquisition Parameters
Date_     20191115
Time      19.53
INSTRUM   spect
PROBHD    5 mm PABBO BB/
PULPROG   zgpg30
TD         65536
SOLVENT   MeOD
NS         312
DS         4
SWH        29761.904 Hz
FIDRES     0.454131 Hz
AQ         1.1010048 sec
RG         191.52
DW         16.800 usec
DE         10.00 usec
TE         300.0 K
D1         2.0000000 sec
D11        0.03000000 sec
TD0        1

===== CHANNEL f1 =====
SFO1      125.5513451 MHz
NUC1       13C
PL        10.00 usec
PLW1      71.00000000 W

===== CHANNEL f2 =====
SFO2      499.2610621 MHz
NUC2       1H
CPDPRG[2] waltz16
PCPD2     80.00 usec
PLW2      17.00000000 W
PLW12     0.26563001 W
PLW13     0.17000000 W

F2 - Processing parameters
SI         32768
SF         125.5387918 MHz
WDW        EM
SSB        0
LB         1.00 Hz
GB         0
PC         1.40
```

HPLC Chromatograms of Final Compounds

(S)-2-amino-3-(1H-imidazol-4-yl)-N-phenethylpropanamide (4c)

Sample Name: PSK14

=====

Acq. Operator : SYSTEM	Seq. Line : 28
Acq. Instrument : 1220 HPLC	Location : 80
Injection Date : 1/7/2021 7:33:06 AM	Inj : 1
	Inj Volume : 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

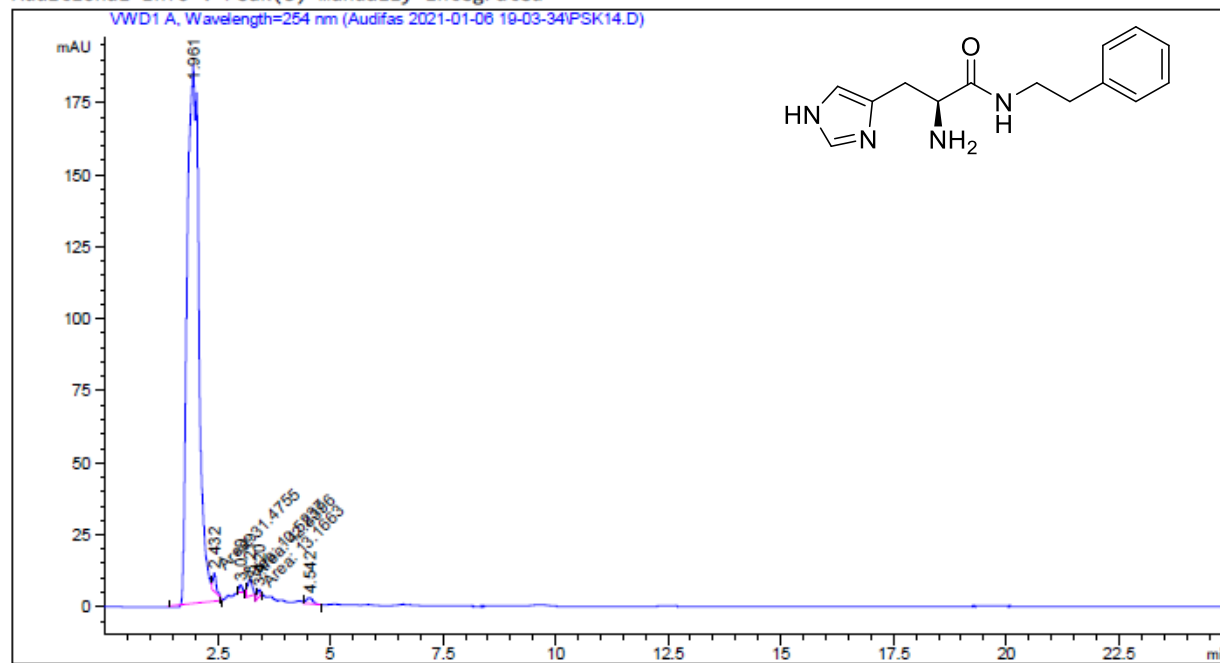
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : PSK14

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.961	MM R	0.3806	3403.53442	186.91812	96.6275
2	2.432	MM T	0.0827	31.47550	6.34564	0.8936
3	3.010	MM T	0.0727	10.52366	2.41180	0.2988
4	3.219	MM T	0.1242	42.83961	5.74662	1.2162

(R)-2-amino-3-(1H-imidazol-4-yl)-N-phenethylpropanamide(4d)

Sample Name: PSK

=====

Acq. Operator : SYSTEM	Seq. Line : 31
Acq. Instrument : 1220 HPLC	Location : 81
Injection Date : 1/7/2021 8:55:48 AM	Inj : 1
	Inj Volume : 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

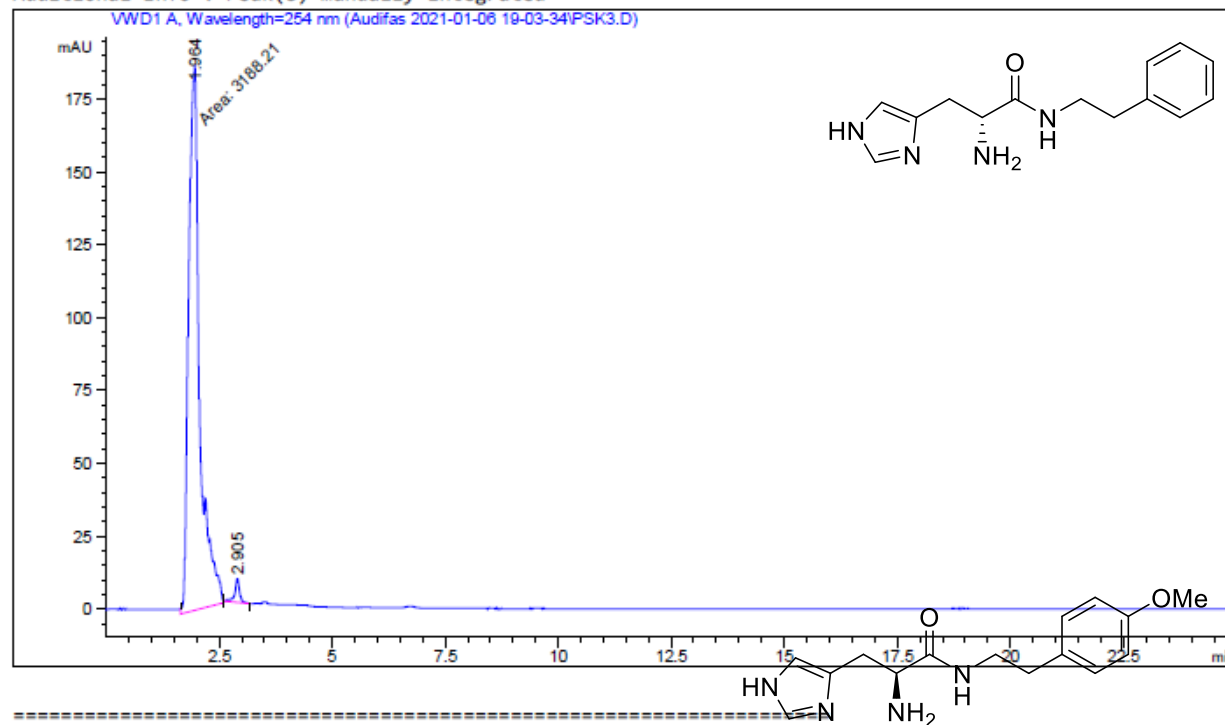
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : PSK3

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.964	MM T	0.3095	3188.21191	186.93040	98.1449
2	2.905	BB	0.1058	60.26109	8.05252	1.8551

Totals : 3248.47301 194.98293

=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

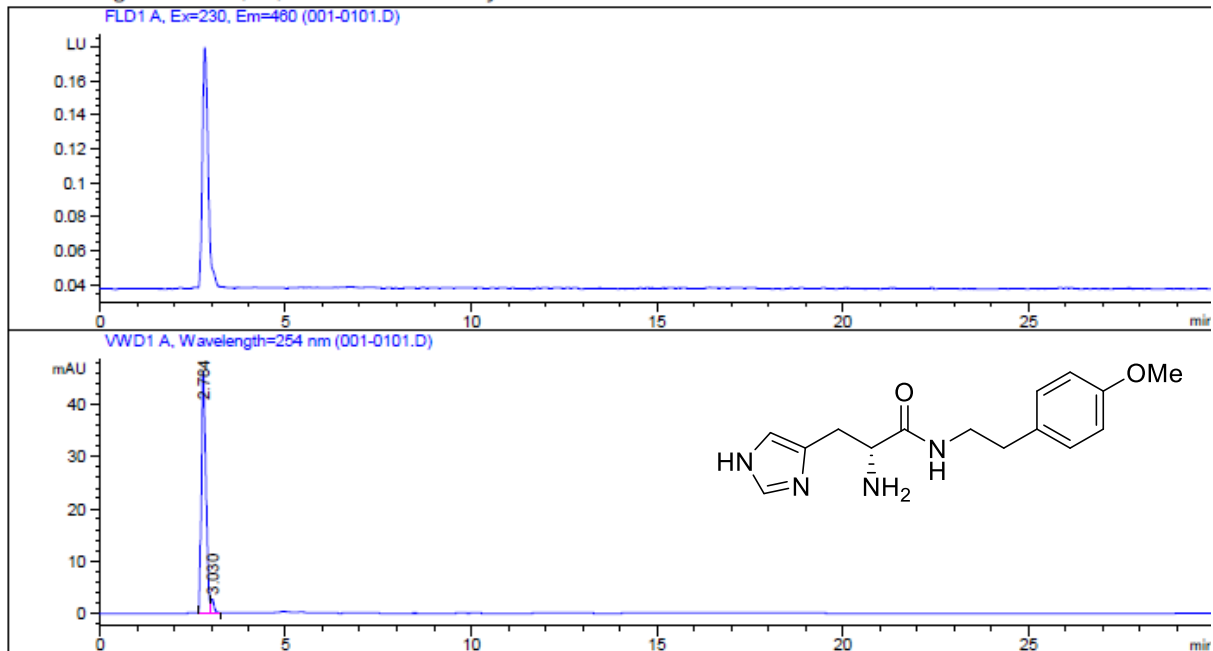
(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxyphenethyl)propanamide (4f):

Sample Name: SR 69-1 d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 1
Acq. Instrument	: HPLC	Location	: Vial 1
Injection Date	: 12/16/2020 5:26:00 PM	Inj	: 1
		Inj Volume	: 20.000 µl

Sequence File : C:\Chem32\1\DATA\Ao\KK 2020-12-16 17-24-50\KK.S
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-16 17-24-50\CQ.M (Sequence Method)
Last changed : 12/16/2020 5:24:50 PM by SYSTEM



=====

Area Percent Report

=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.784	BV	0.1141	388.43942	46.19957	96.1296
2	3.030	VB	0.0900	15.63965	2.60797	3.8704

Totals : 404.07908 48.80754

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.741	BB	0.2070	2580.59741	184.69226	100.0000

Totals : 2580.59741 184.69226

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)phenethyl)propanamide

Sample Name: PSK1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 8
Acq. Instrument	: 1220 HPLC	Location	: 57
Injection Date	: 2/3/2021 6:26:56 PM	Inj	: 1
		Inj Volume	: 50.000 µl

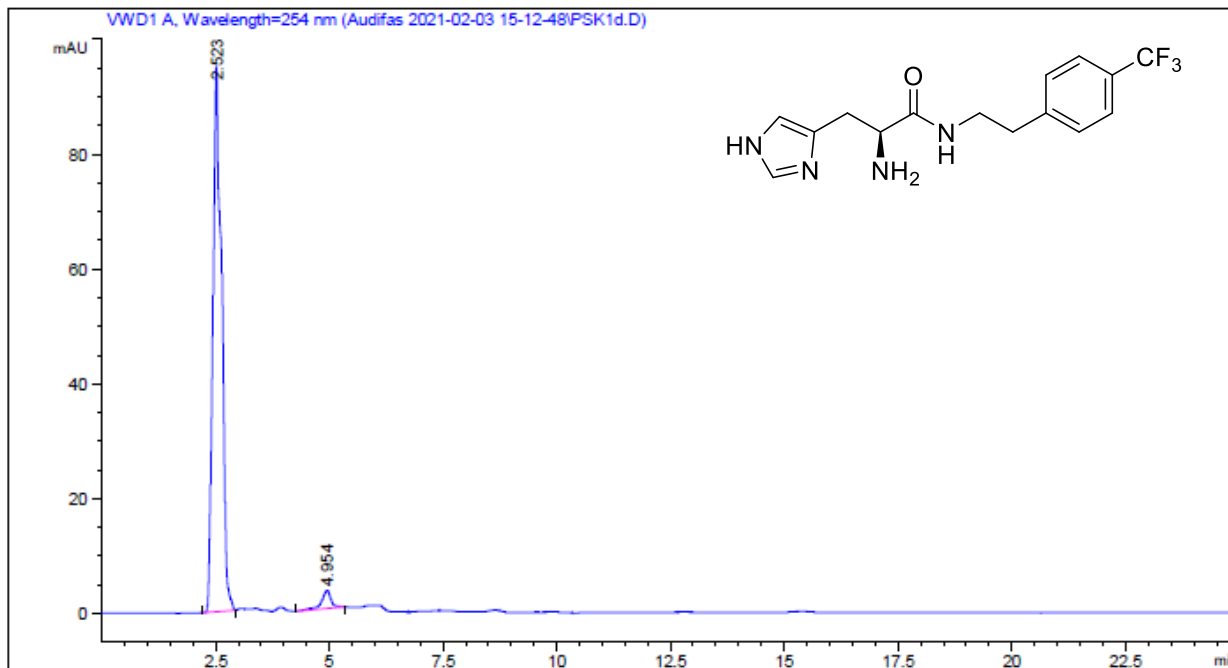
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

Method : C:\Chem32\1\Data\Audifas 2021-02-03 15-12-48\Wash_Shafikur.M (Sequence Method)

Last changed : 2/3/2021 3:12:52 PM by SYSTEM

Method Info : Methanol/Water 0.05 % TFA

Sample Info : PSK1d



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.523	BB	0.1667	1255.20386	95.25862	96.4839
2	4.954	BV R	0.1736	45.74269	3.13797	3.5161
Totals :				1300.94654	98.39659	

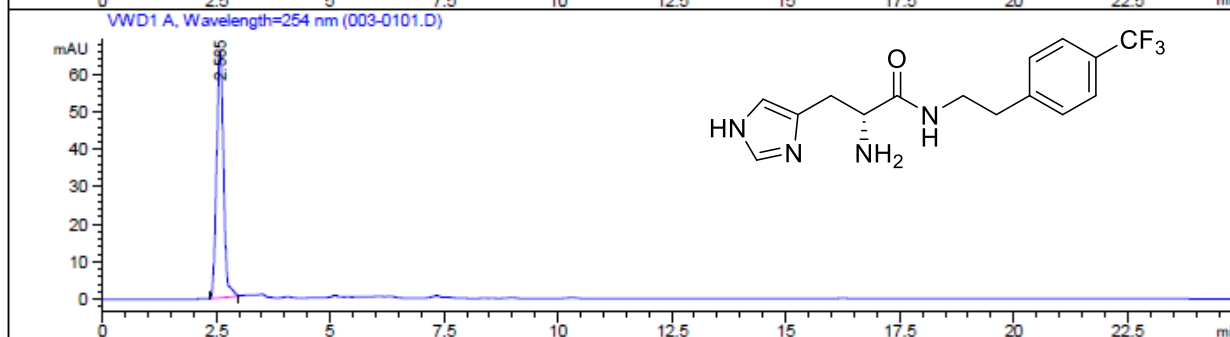
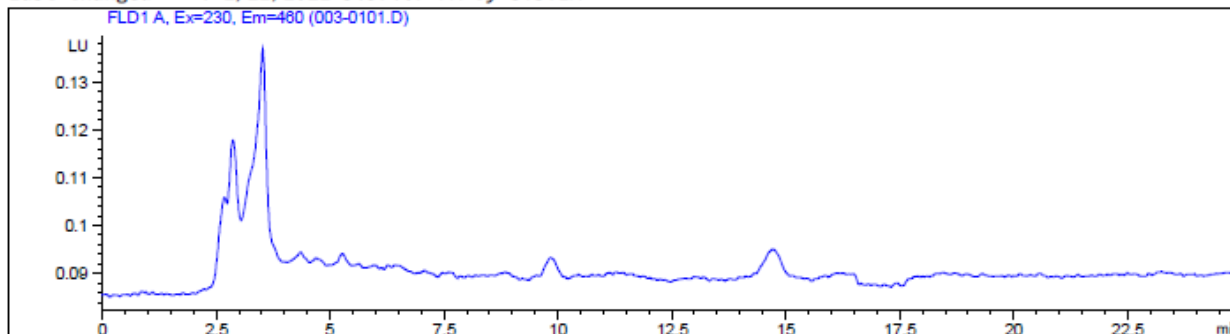
(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)phenethyl)propanamide

Sample Name: PSK 2d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 3
Injection Date : 2/22/2021 3:58:14 PM	Inj : 1
	Inj Volume : 20.000 µl

Sequence File : C:\Chem32\1\DATA\Ao\KK 2021-02-22 15-57-07\KK.S
Method : C:\CHEM32\1\DATA\AO\KK 2021-02-22 15-57-07\CQ.M (Sequence Method)
Last changed : 2/22/2021 3:57:07 PM by SYSTEM



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.585	BB	0.1574	694.42896	65.67966	100.0000

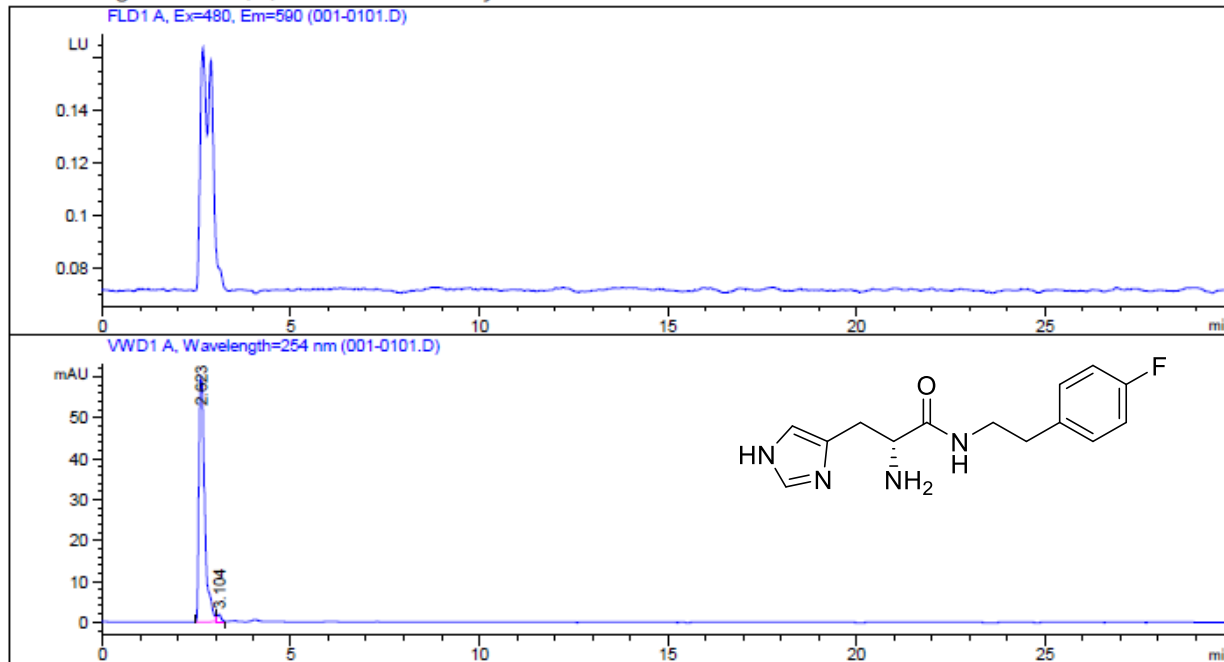
Totals : 694.42896 65.67966

(R)-2-amino-N-(4-fluorophenethyl)-3-(1H-imidazol-4-yl)propanamide (4n)

Sample Name: KS-94-d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 1
Injection Date : 12/9/2020 1:13:27 PM	Inj : 1
	Inj Volume : 20.000 µl
Sequence File : C:\Chem32\1\DATA\Ao\KK 2020-12-09 13-12-18\KK.S	
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-09 13-12-18\CQ.M (Sequence Method)	
Last changed : 12/9/2020 1:12:19 PM by SYSTEM	



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=480, Em=590

Signal 2: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.623	BV	0.1662	643.78772	59.96936	97.8111
2	3.104	VB	0.1187	14.40736	1.70374	2.1889

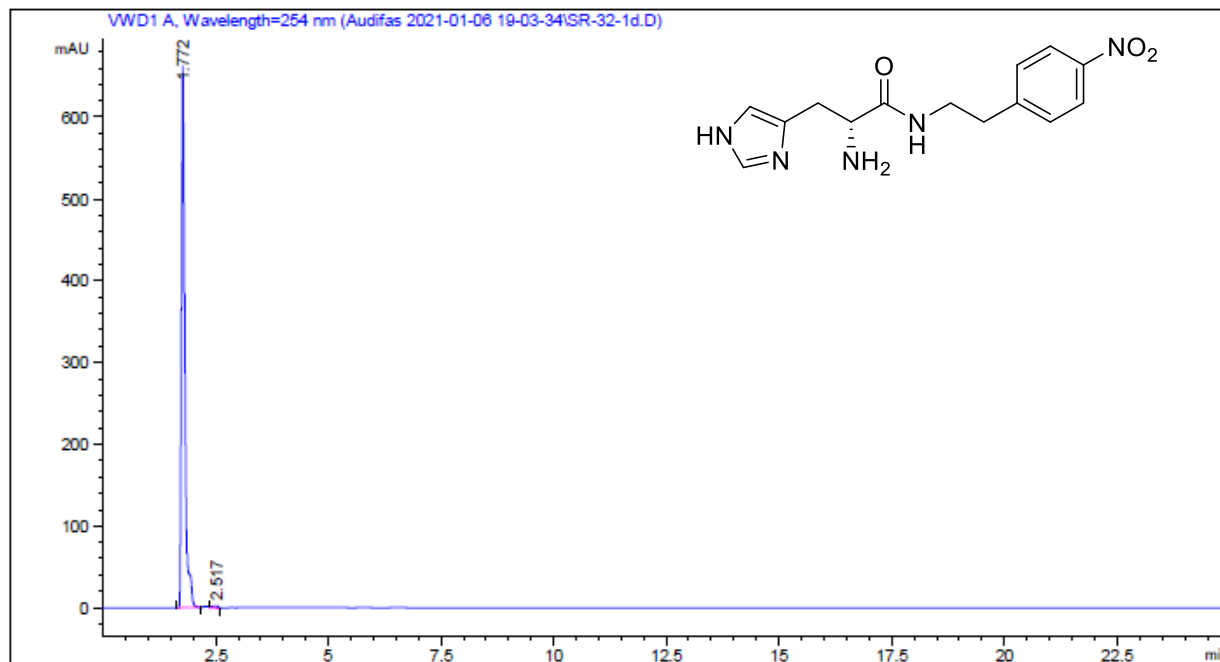
Totals : 658.19508 61.67310

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-nitrophenethyl)propanamide (4p)

Sample Name: SR-32-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 17
Acq. Instrument	: 1220 HPLC	Location	: 71
Injection Date	: 1/7/2021 2:29:57 AM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl			
Method	: C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)		
Last changed	: 1/6/2021 7:13:21 PM by SYSTEM		
Method Info	: Methanol/Water TFA 0.05 %		
Sample Info	: SR-32-1d		



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.772	BB	0.0818	3541.53955	662.76624	99.4130
2	2.517	VB	0.1131	20.91246	2.46200	0.5870

Totals : 3562.45201 665.22823

(S)-N-(2-([1,1'-biphenyl]-4-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

Sample Name: SR 21-1 d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 4
Acq. Instrument	: 1220 HPLC	Location	: 22
Injection Date	: 1/12/2021 4:30:41 PM	Inj	: 1
		Inj Volume	: 50.000 µl

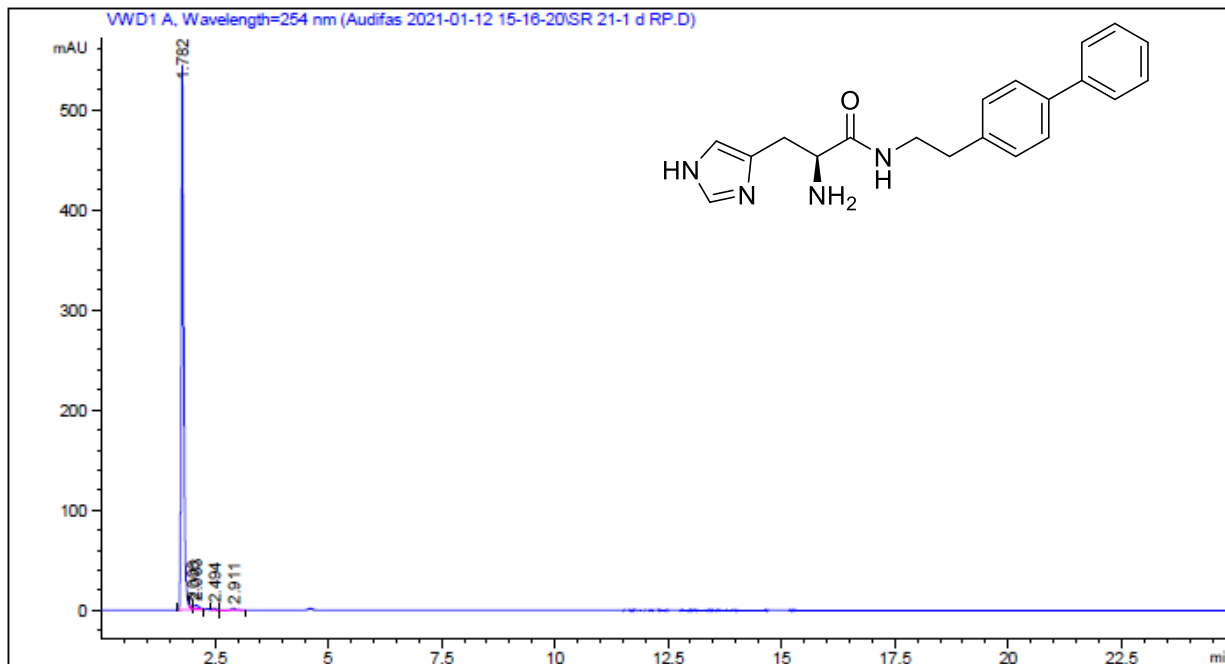
Different Inj Volume from Sample Entry! Actual Inj Volume : 10.000 µl

Method : C:\Chem32\1\Data\Audifas 2021-01-12 15-16-20\Wash_Shafikur.M (Sequence Method)

Last changed : 1/12/2021 3:16:24 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : SR 21-1 d AG



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.782	BV R	0.0580	2096.91895	544.23639	96.8984
2	2.006	VV E	0.0471	10.06466	2.57519	0.4651
3	2.083	VB E	0.0908	29.99245	4.43780	1.3859
4	2.494	VB	0.0694	9.51005	1.88400	0.4395
5	2.911	BB	0.1261	17.55167	1.74936	0.8111

(R)-N-(2-([1,1'-biphenyl]-4-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide

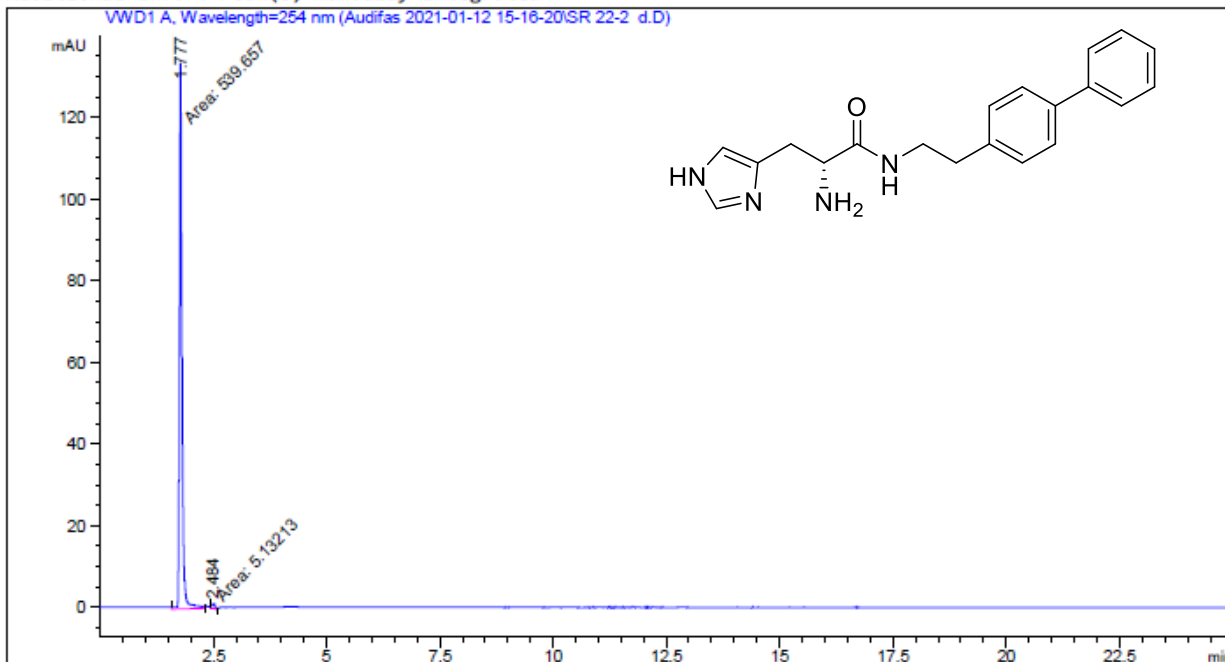
Sample Name: SR 22-2 d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 5
Acq. Instrument	: 1220 HPLC	Location	: 31
Injection Date	: 1/12/2021 4:57:57 PM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 10.000 µl			
Method	: C:\Chem32\1\Data\Audifas 2021-01-12 15-16-20\Wash_Shafikur.M (Sequence Method)		
Last changed	: 1/12/2021 3:16:24 PM by SYSTEM		
Method Info	: Methanol/Water TFA 0.05 %		

Sample Info : SR 22-2 d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.777	MM T	0.0673	539.65656	133.61414	99.0580
2	2.484	MM T	0.0795	5.13213	1.07656	0.9420

Totals : 544.78869 134.69069

(S)-2-amino-N-benzyl-3-(1H-imidazol-4-yl)propanamide (5a)

Sample Name: KS100d

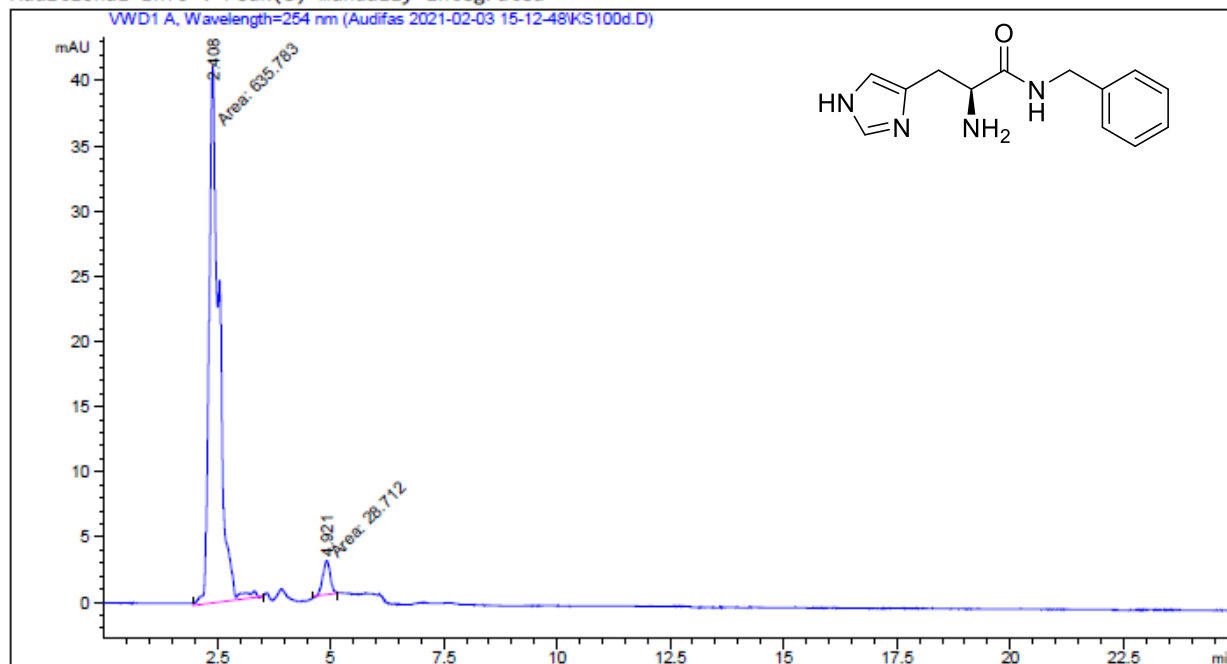
```

=====
Acq. Operator   : SYSTEM                      Seq. Line :    3
Acq. Instrument : 1220 HPLC                   Location  :   52
Injection Date  : 2/3/2021 4:09:20 PM        Inj       :    1
                                           Inj Volume: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl
Method          : C:\Chem32\1\Data\Audifas 2021-02-03 15-12-48\Wash_Shafikur.M (Sequence
                : Method)
Last changed    : 2/3/2021 3:12:52 PM by SYSTEM
Method Info     : Methanol/Water 0.05 % TFA

```

Sample Info : KS100d

Additional Info : Peak(s) manually integrated



```

=====
Area Percent Report
=====

```

```

Sorted By       :      Signal
Multiplier      :      1.0000
Dilution        :      1.0000
Use Multiplier & Dilution Factor with ISTDs

```

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.408	MM T	0.2569	635.78271	41.24117	95.6791
2	4.921	MM T	0.2197	28.71196	2.57889	4.3209

```
Totals :                664.49468  43.82006
```

(S)-2-amino-3-(1H-3l4-imidazol-4-yl)-N-(4-methoxybenzyl)propanamide (5b)

Sample Name: SR 20-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 7
Acq. Instrument	: 1220 HPLC	Location	: 47
Injection Date	: 12/29/2020 5:01:24 PM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 25.000 µl

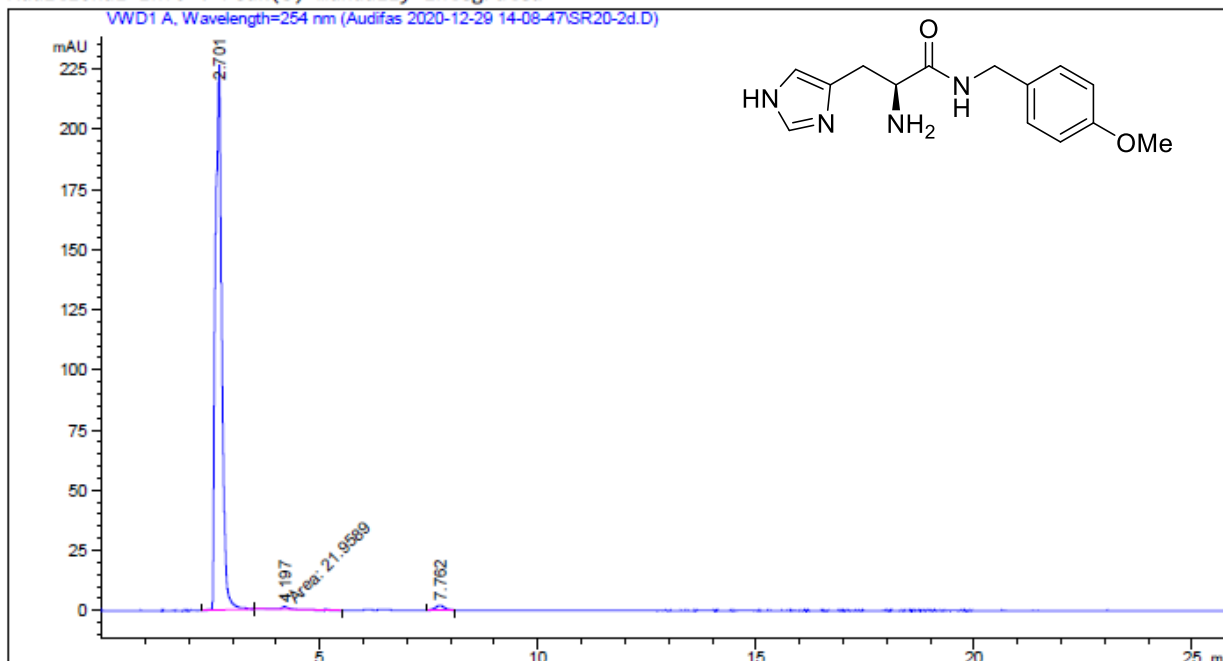
Method : C:\Chem32\1\Data\Audifas 2020-12-29 14-08-47\Wash_Shafikur.M (Sequence Method)

Last changed : 12/29/2020 2:08:51 PM by SYSTEM

Method Info : Wash_Shafikur Water 0.05 %TFA / Methanol

Sample Info : SR20-2d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

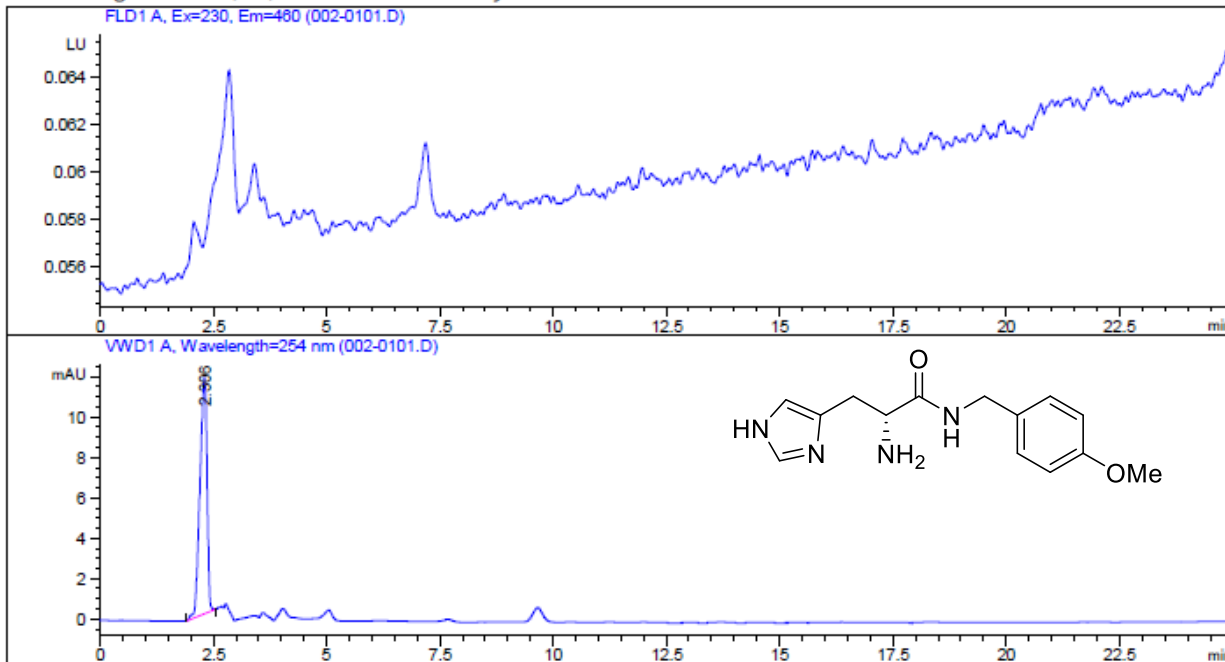
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.701	BB	0.1384	2328.67993	226.55333	97.8858
2	4.197	MM	0.3148	21.95889	1.16269	0.9230
3	7.762	BB	0.1733	28.33842	1.92964	1.1912

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-methoxybenzyl)propanamide (5c)

Sample Name: PSK 12

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 2
Injection Date : 2/25/2021 12:14:50 PM	Inj : 1
	Inj Volume : 20.000 µl
Sequence File : C:\Chem32\1\DATA\Ao\KK 2021-02-25 12-13-42\KK.S	
Method : C:\CHEM32\1\DATA\AO\KK 2021-02-25 12-13-42\CQ.M (Sequence Method)	
Last changed : 2/25/2021 12:13:42 PM by SYSTEM	



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.306	BB	0.1743	127.70169	11.70746	100.0000

Totals : 127.70169 11.70746

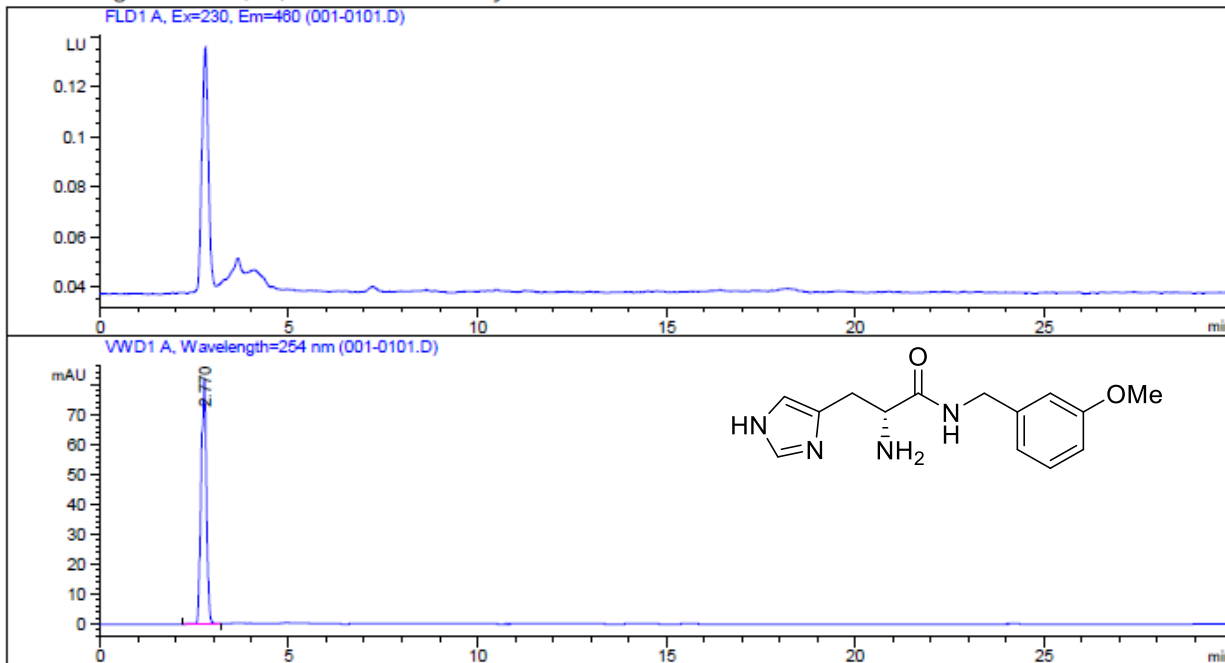
(R)-2-amino-3-(1H-3/4-imidazol-4-yl)-N-(3-methoxybenzyl)propanamide (5g)

Sample Name: SR 70-1 d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 1
Injection Date : 12/16/2020 6:24:12 PM	Inj : 1
	Inj Volume : 20.000 µl

Sequence File : C:\Chem32\1\DATA\AO\KK 2020-12-16 18-23-04\KK.S
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-16 18-23-04\CQ.M (Sequence Method)
Last changed : 12/16/2020 6:23:05 PM by SYSTEM



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.770	BB	0.1274	790.94592	82.10738	100.0000

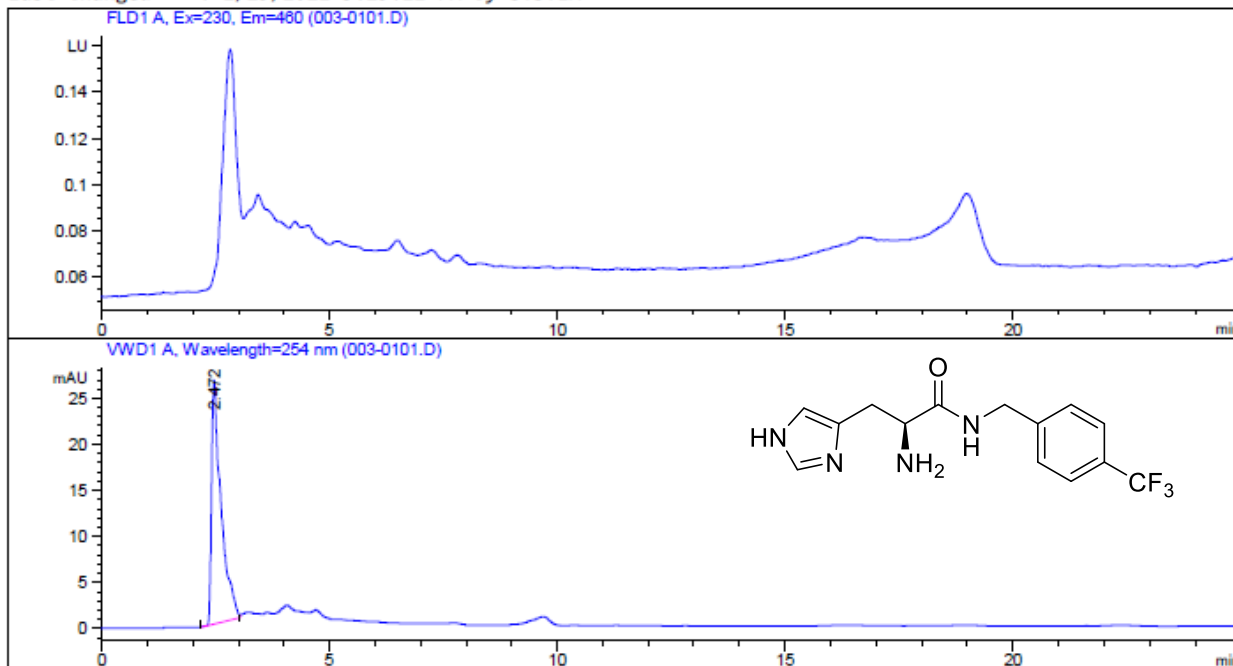
Totals : 790.94592 82.10738

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)benzyl)propanamide (5h)

Sample Name: PSK 6d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 3
Injection Date : 2/25/2021 3:26:35 PM	Inj : 1
	Inj Volume : 50.000 µl
Sequence File : C:\Chem32\1\DATA\Ao\KK 2021-02-25 15-25-11\KK.S	
Method : C:\CHEM32\1\DATA\AO\KK 2021-02-25 15-25-11\CQ.M (Sequence Method)	
Last changed : 2/25/2021 3:25:11 PM by SYSTEM	



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.472	BV	0.1993	383.15048	26.40471	100.0000

Totals : 383.15048 26.40471

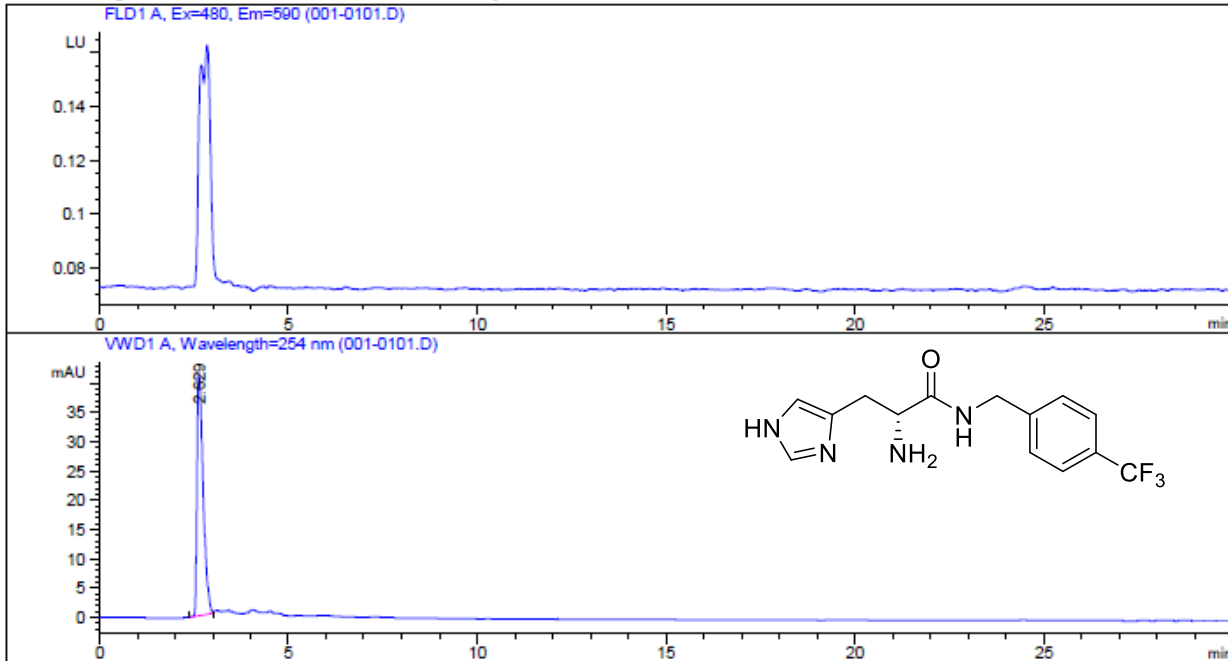
(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethyl)benzyl)propanamide (5i)

Sample Name: KS-102

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 1
Injection Date : 12/9/2020 12:08:59 PM	Inj : 1
	Inj Volume : 20.000 µl

Sequence File : C:\Chem32\1\DATA\Ao\KK 2020-12-09 12-07-53\KK.S
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-09 12-07-53\CQ.M (Sequence Method)
Last changed : 12/9/2020 12:07:53 PM by SYSTEM



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=480, Em=590

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.629	BV	0.1720	464.86584	41.10150	100.0000

Totals : 464.86584 41.10150

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(trifluoromethyl)benzyl)propanamide (5j)

Sample Name: SR 74-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 3
Acq. Instrument	: 1220 HPLC	Location	: 44
Injection Date	: 12/29/2020 3:07:25 PM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 25.000 µl

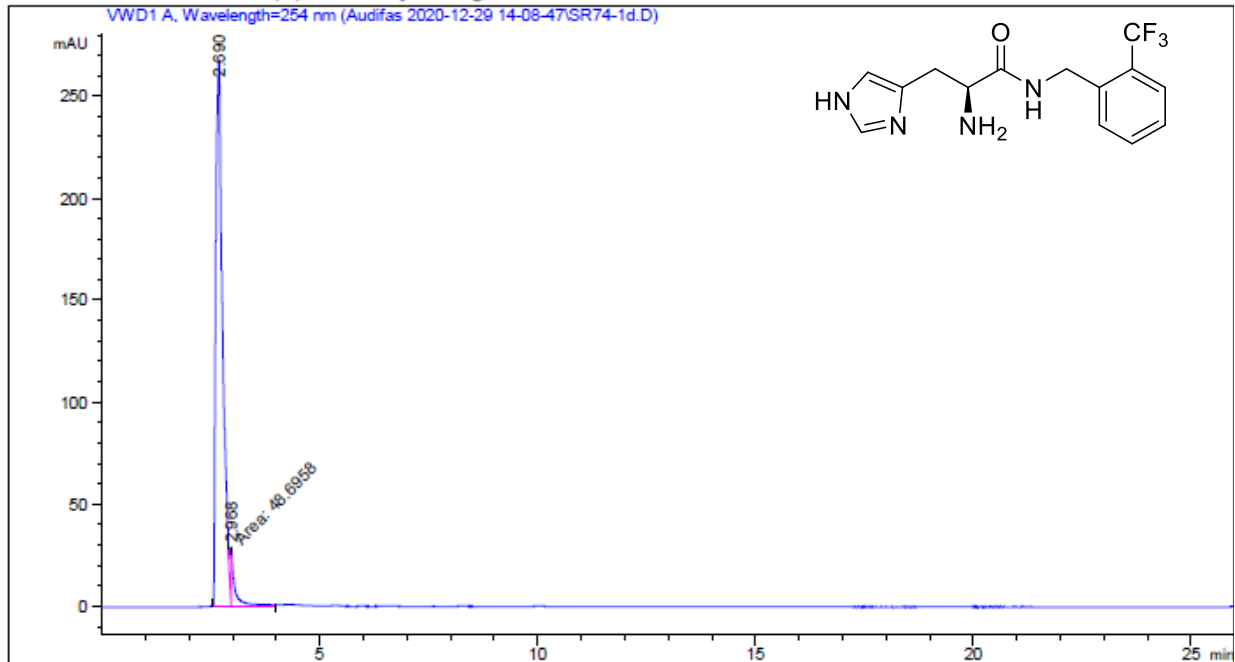
Method : C:\Chem32\1\Data\Audifas 2020-12-29 14-08-47\Wash_Shafikur.M (Sequence Method)

Last changed : 12/29/2020 2:08:51 PM by SYSTEM

Method Info : Wash_Shafikur Water 0.05 %TFA / Methanol

Sample Info : SR74-1d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.690	MM R	0.1853	3100.65503	267.02853	98.4538
2	2.968	MM T	0.0287	48.69577	28.29720	1.5462

Totals : 3149.35080 295.32573

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(trifluoromethyl)benzyl)propanamide

Sample Name: SR 47-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 30
Acq. Instrument	: 1220 HPLC	Location	: 64
Injection Date	: 12/30/2020 4:03:14 AM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 25.000 µl

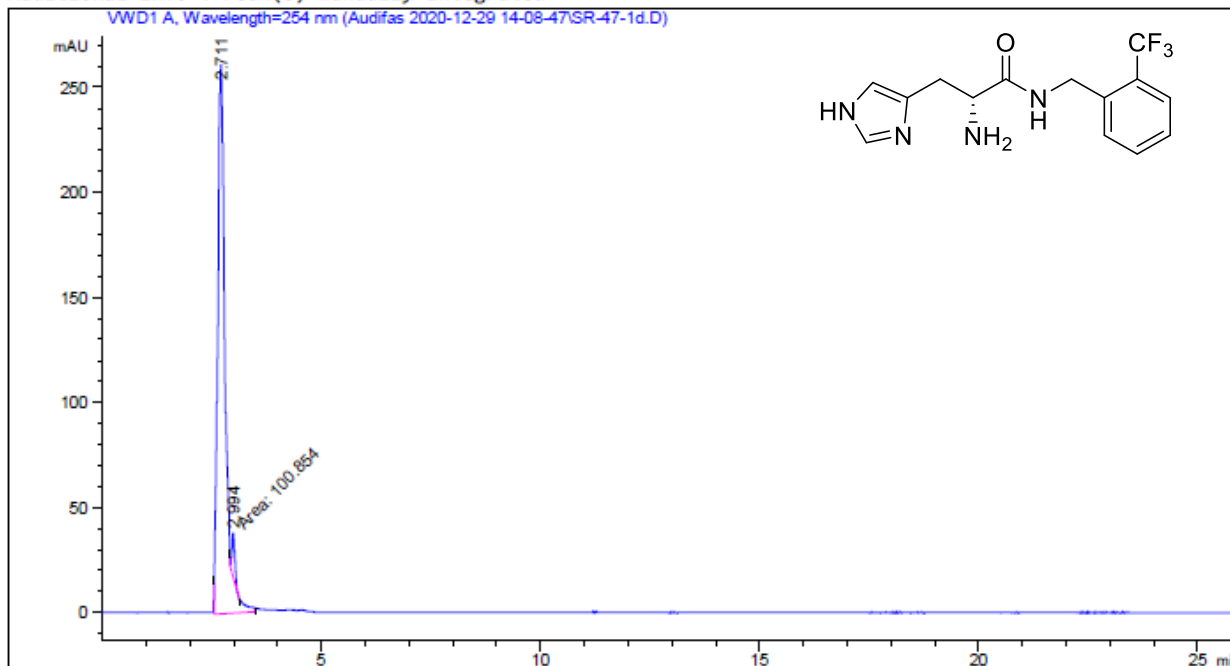
Method : C:\Chem32\1\Data\Audifas 2020-12-29 14-08-47\Wash_Shafikur.M (Sequence Method)

Last changed : 12/29/2020 2:08:51 PM by SYSTEM

Method Info : Wash_Shafikur Water 0.05 %TFA / Methanol

Sample Info : SR-47-1d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.711	MM R	0.1988	3119.55469	261.53845	96.8683
2	2.994	MM T	0.0867	100.85400	21.43935	3.1317

Totals : 3220.40869 282.97780

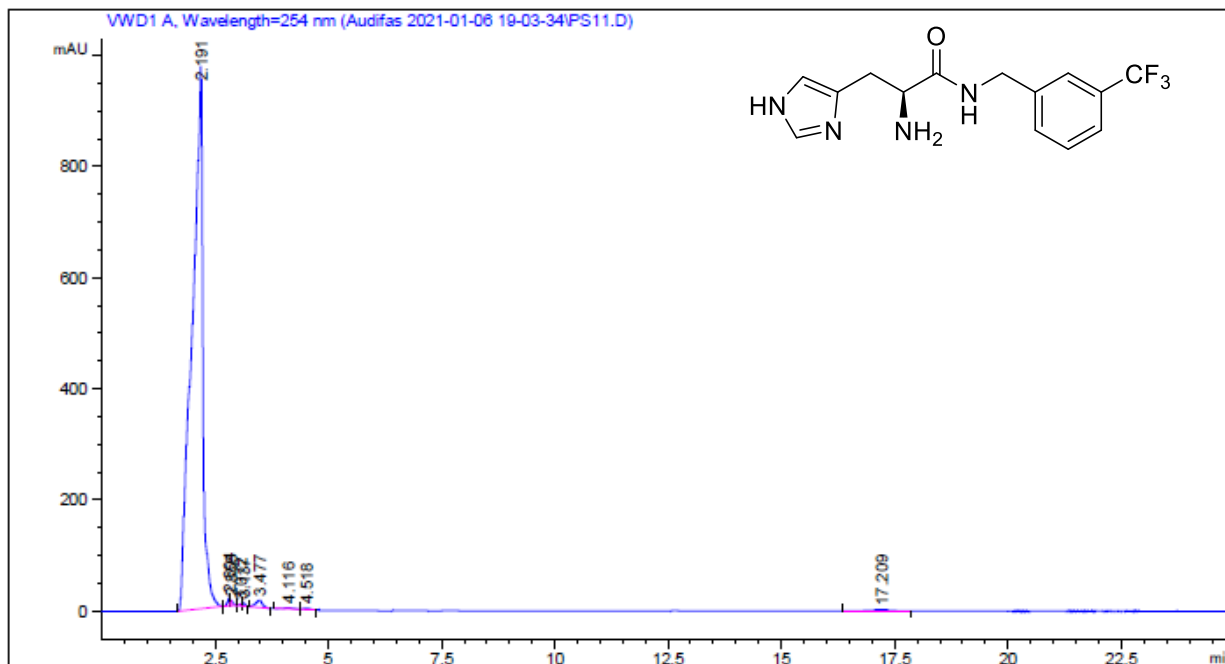
(S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-(trifluoromethyl)benzyl)propanamide (5I)

Sample Name: PS11

=====

Acq. Operator	: SYSTEM	Seq. Line	: 33
Acq. Instrument	: 1220 HPLC	Location	: 83
Injection Date	: 1/7/2021 9:50:42 AM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl			
Method	: C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)		
Last changed	: 1/6/2021 7:13:21 PM by SYSTEM		
Method Info	: Methanol/Water TFA 0.05 %		

Sample Info : PS11



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.191	BV	0.2070	1.60680e4	976.16382	97.6645
2	2.804	VV	0.0523	50.54400	13.62504	0.3072
3	2.856	VB	0.0494	31.15095	9.23310	0.1893
4	3.072	BV	0.0430	7.76413	2.20815	0.0472
5	3.137	VB	0.0726	22.62145	4.70742	0.1375

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(3-(trifluoromethyl)benzyl)propanamide (5m)

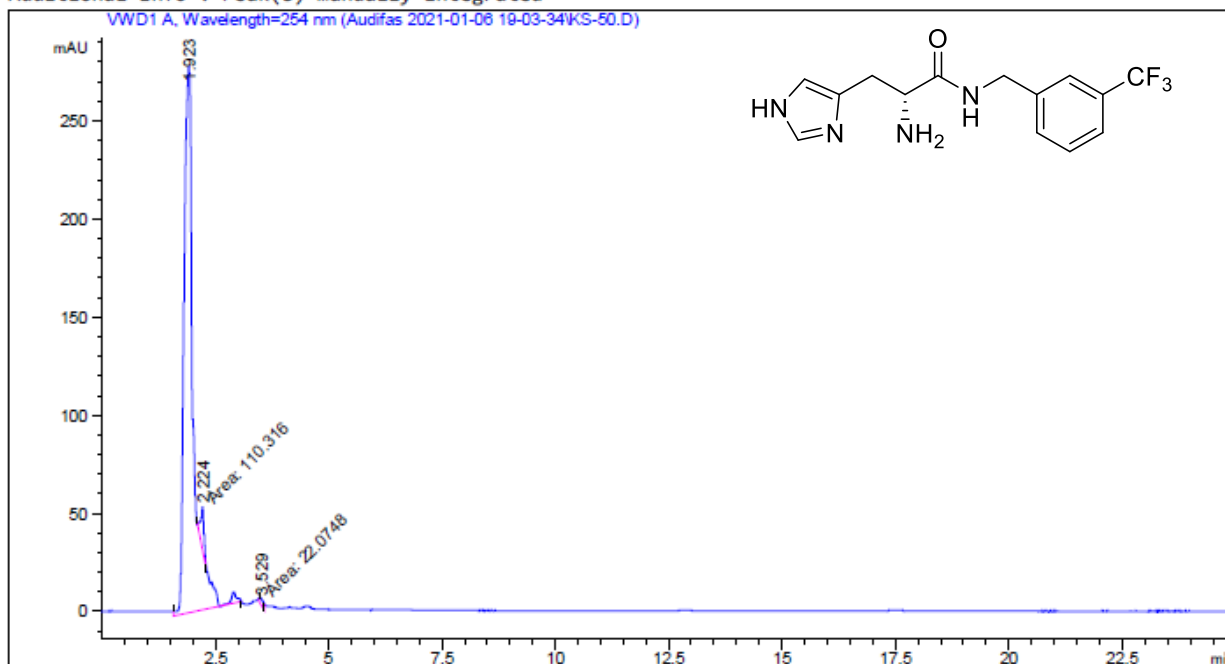
Sample Name: KS-50

=====

Acq. Operator : SYSTEM	Seq. Line : 24
Acq. Instrument : 1220 HPLC	Location : 76
Injection Date : 1/7/2021 5:42:46 AM	Inj : 1
	Inj Volume : 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl	
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)	
Last changed : 1/6/2021 7:13:21 PM by SYSTEM	
Method Info : Methanol/Water TFA 0.05 %	

Sample Info : KS-50

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.923	MM R	0.2843	4027.58911	278.71985	96.8175
2	2.224	MM T	0.1064	110.31607	22.17361	2.6518
3	3.529	MM T	0.0739	22.07477	3.53974	0.5306

(R)-2-amino-N-(4-fluorobenzyl)-3-(1H-imidazol-4-yl)propanamide (5o)

Sample Name: KS 93d

=====

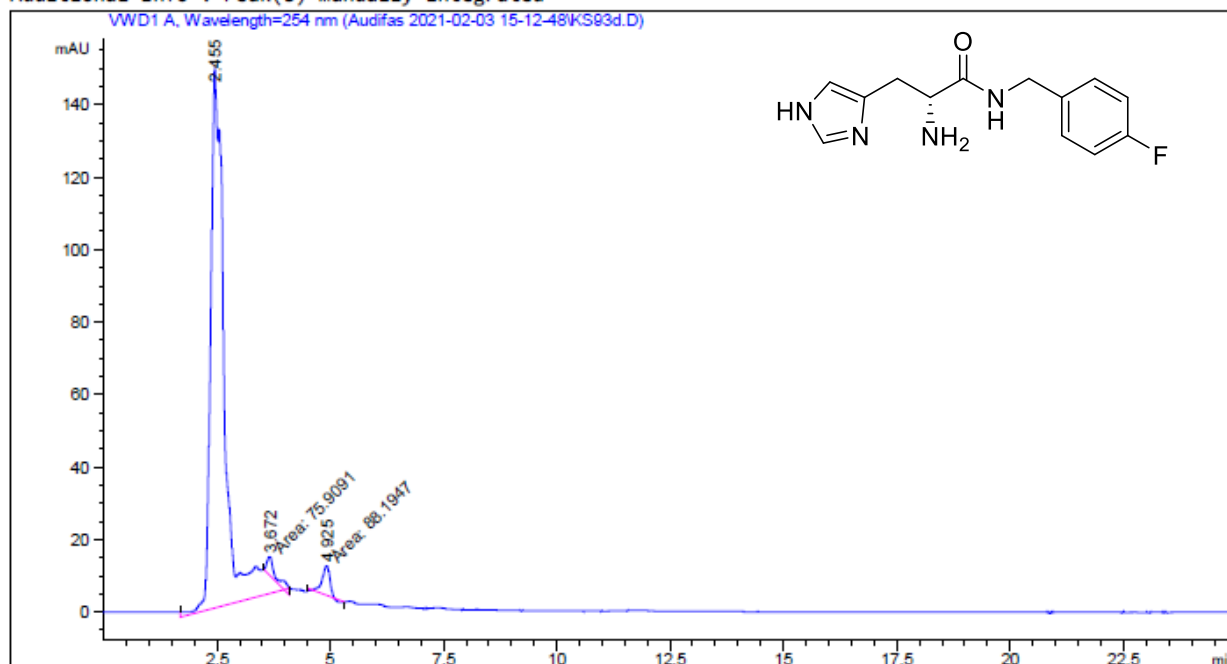
Acq. Operator	: SYSTEM	Seq. Line	: 4
Acq. Instrument	: 1220 HPLC	Location	: 53
Injection Date	: 2/3/2021 4:36:50 PM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

Method	: C:\Chem32\1\Data\Audifas 2021-02-03 15-12-48\Wash_Shafikur.M (Sequence Method)
Last changed	: 2/3/2021 3:12:52 PM by SYSTEM
Method Info	: Methanol/Water 0.05 % TFA

Sample Info : KS93d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.455	MM R	0.3552	3183.49414	149.36600	95.0979
2	3.672	MM T	0.2428	75.90913	5.21036	2.2676
3	4.925	MM T	0.1811	88.19469	8.11711	2.6346

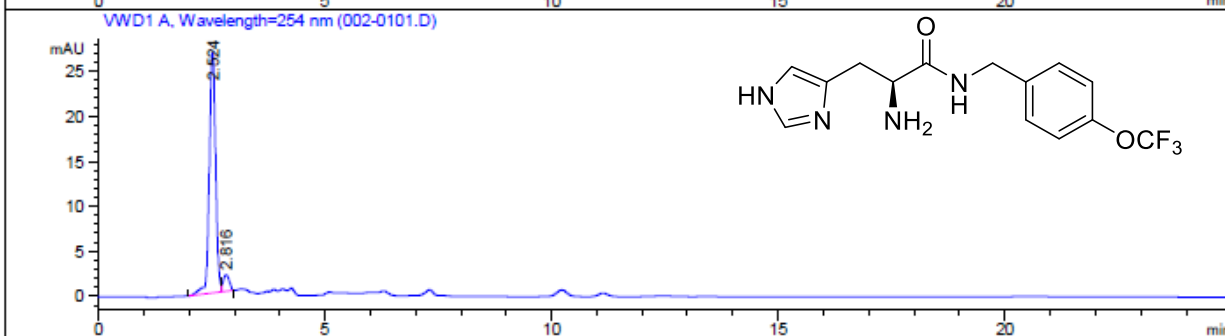
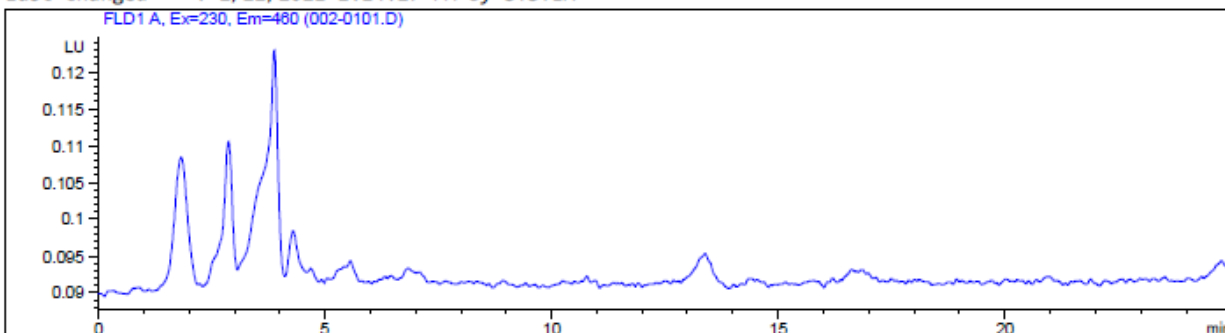
(S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethoxy)benzyl)propanamide (5p)

Sample Name: PSK 5d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 2
Injection Date : 2/22/2021 1:15:35 PM	Inj : 1
	Inj Volume : 20.000 µl
Sequence File : C:\Chem32\1\DATA\Ao\KK 2021-02-22 13-14-27\KK.S	
Method : C:\CHEM32\1\DATA\AO\KK 2021-02-22 13-14-27\CQ.M (Sequence Method)	
Last changed : 2/22/2021 1:14:27 PM by SYSTEM	

=====



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.524	BV	0.1479	261.86145	26.82778	93.8184
2	2.816	VB	0.1470	17.25385	1.84755	6.1816

Totals : 279.11530 28.67532

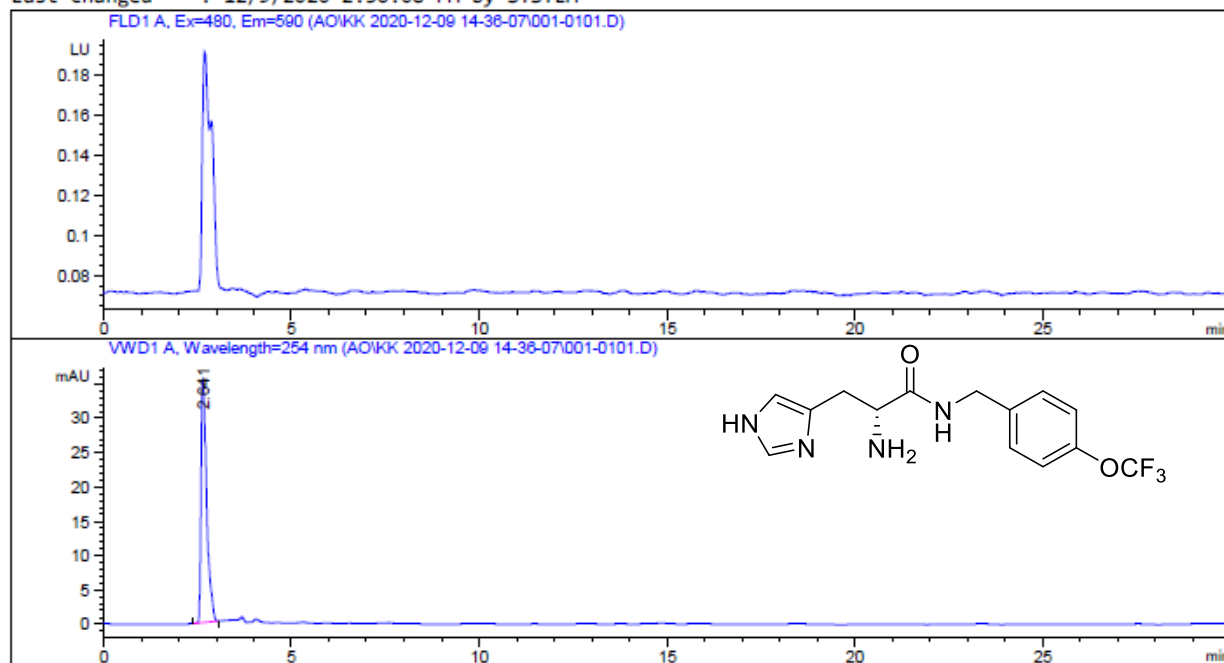
(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-(trifluoromethoxy)benzyl)propanamide (5q)

Sample Name: KS-99

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 1
Injection Date : 12/9/2020 2:37:16 PM	Inj : 1
	Inj Volume : 20.000 µl
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-09 14-36-07\CQ.M (Sequence Method)	
Last changed : 12/9/2020 2:36:08 PM by SYSTEM	

=====



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=480, Em=590

Signal 2: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.641	BB	0.1623	368.46179	35.42866	100.0000

Totals : 368.46179 35.42866

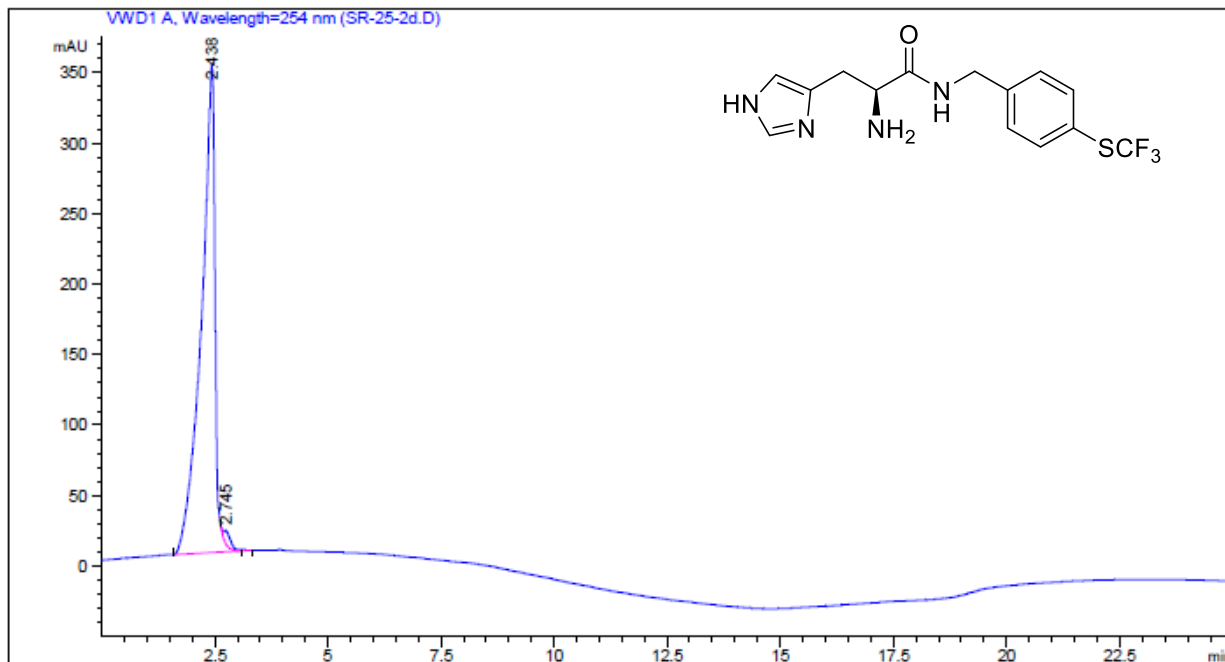
(S)-2-amino-3-(1H-imidazol-4-yl)-N-(4-((trifluoromethyl)thio)benzyl)propanamide

Sample Name: SR-25-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 6
Acq. Instrument	: 1220 HPLC	Location	: 56
Injection Date	: 12/30/2020 5:50:10 PM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 25.000 µl			
Sequence File	: C:\Chem32\1\Data\Audifas 2020-12-30 15-31-06\Audifas.S		
Method	: C:\Chem32\1\Data\Audifas 2020-12-30 15-31-06\Wash_Shafikur.M (Sequence Method)		
Last changed	: 12/30/2020 3:31:09 PM by SYSTEM		
Method Info	: Wash_Shafikur Water 0.05% TFA / Methanol		

Sample Info : SR-25-2d



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.438	BV R	0.2771	7274.41016	346.24774	98.5591
2	2.745	VV E	0.1413	106.35146	9.52277	1.4409

Totals : 7380.76161 355.77051

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-((trifluoromethyl)thio)benzyl)propanamide

Sample Name: SR-26-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 11
Acq. Instrument	: 1220 HPLC	Location	: 67
Injection Date	: 1/6/2021 11:44:37 PM	Inj	: 1
		Inj Volume	: 50.000 µl

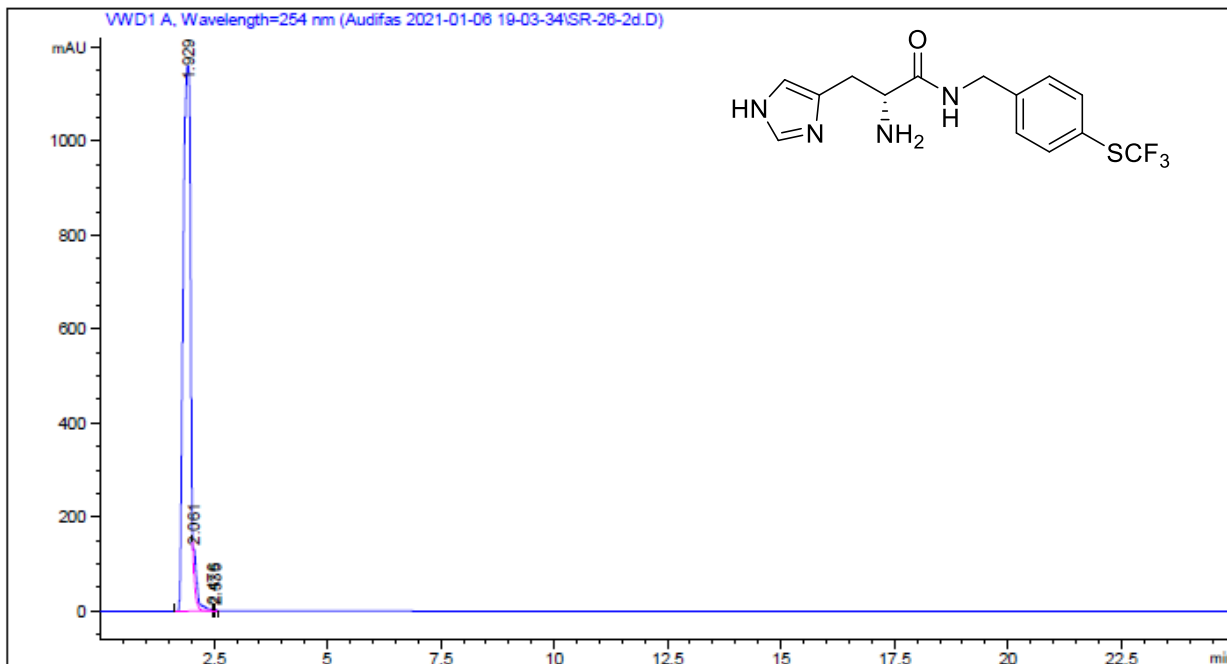
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : SR-26-2d



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.929	BV R	0.1848	1.33215e4	1161.39929	96.5065
2	2.061	VV E	0.1207	467.32349	50.17341	3.3855
3	2.476	WV E	0.0413	8.78115	2.94324	0.0636
4	2.535	VB E	0.0416	6.12294	2.15543	0.0444

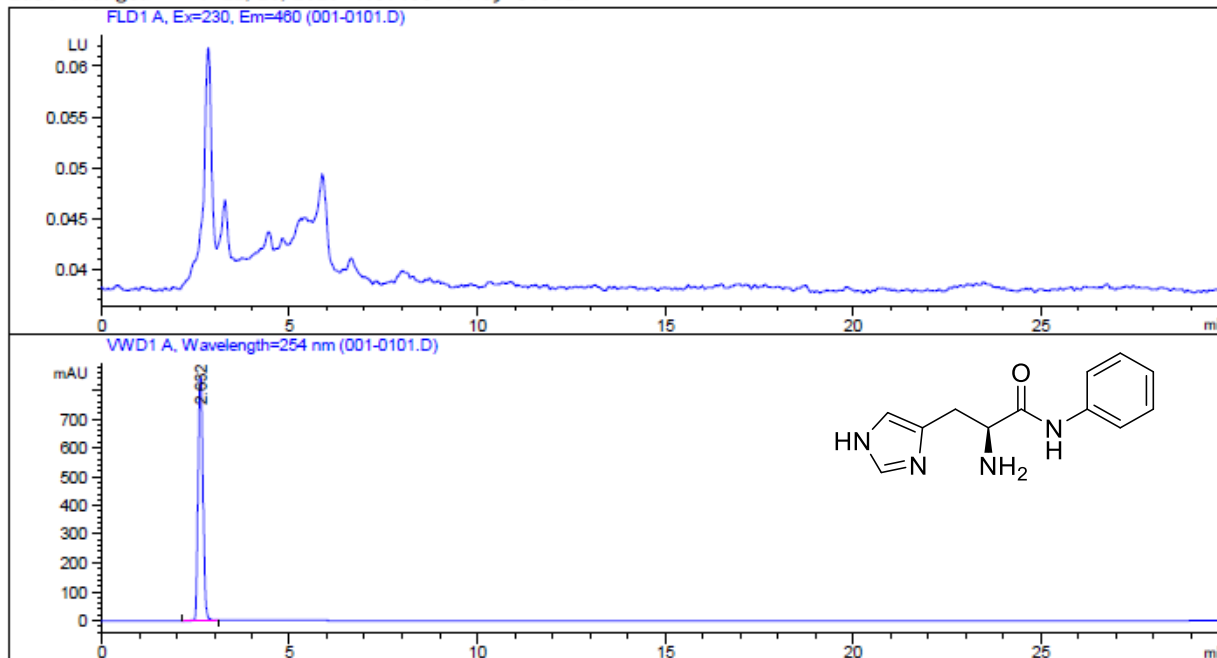
(S)-2-amino-3-(1H-imidazol-4-yl)-N-phenylpropanamide (6a)

Sample Name: SR 73-1 d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 1
Injection Date : 12/16/2020 4:40:42 PM	Inj : 1
	Inj Volume : 20.000 µl

Sequence File : C:\Chem32\1\DATA\Ao\KK 2020-12-16 16-39-32\KK.S
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-16 16-39-32\CQ.M (Sequence Method)
Last changed : 12/16/2020 4:39:33 PM by SYSTEM



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.632	BB	0.1416	7673.69678	848.12286	100.0000

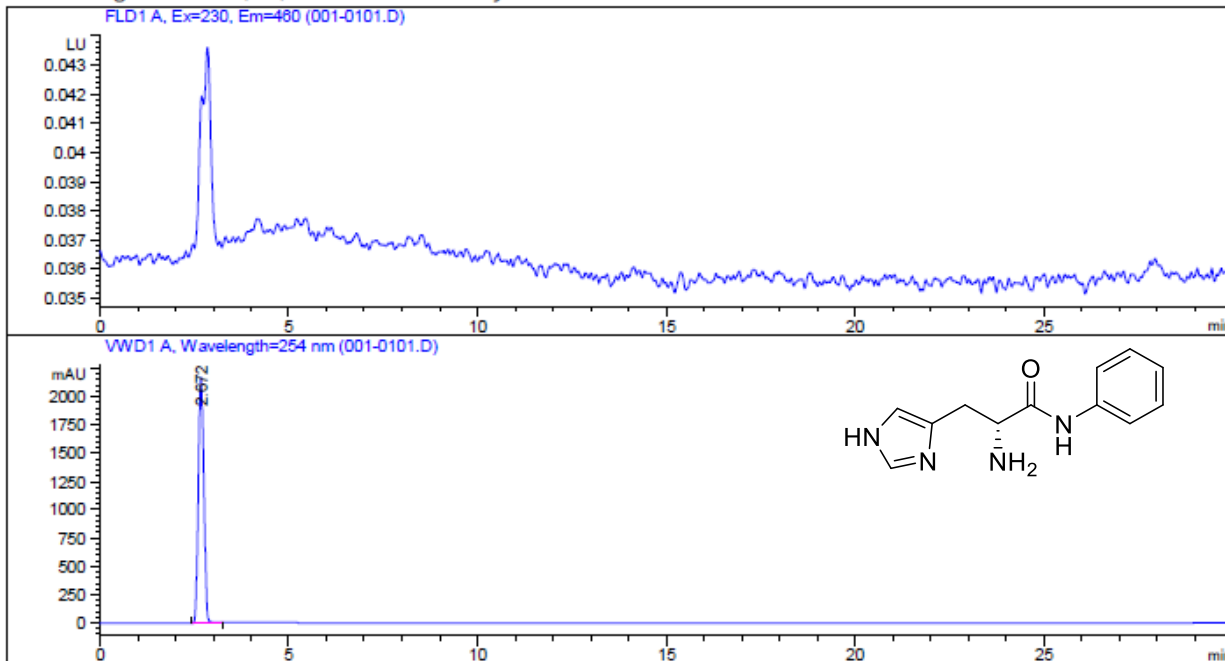
Totals : 7673.69678 848.12286

(R)-2-amino-3-(1H-imidazol-4-yl)-N-phenylpropanamide (6b)

Sample Name: SR 72-1 d

=====

Acq. Operator : SYSTEM	Seq. Line : 1
Acq. Instrument : HPLC	Location : Vial 1
Injection Date : 12/16/2020 1:53:19 PM	Inj : 1
	Inj Volume : 20.000 µl
Sequence File : C:\Chem32\1\DATA\AO\KK 2020-12-16 13-52-11\KK.S	
Method : C:\CHEM32\1\DATA\AO\KK 2020-12-16 13-52-11\CQ.M (Sequence Method)	
Last changed : 12/16/2020 1:52:12 PM by SYSTEM	



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FLD1 A, Ex=230, Em=460

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.672	BB	0.1621	2.19906e4	2173.03809	100.0000

Totals : 2.19906e4 2173.03809

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(3-phenylpropyl)propanamide (7a)

Sample Name: SR-27-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 18
Acq. Instrument	: 1220 HPLC	Location	: 72
Injection Date	: 1/7/2021 2:57:24 AM	Inj	: 1
		Inj Volume	: 50.000 µl

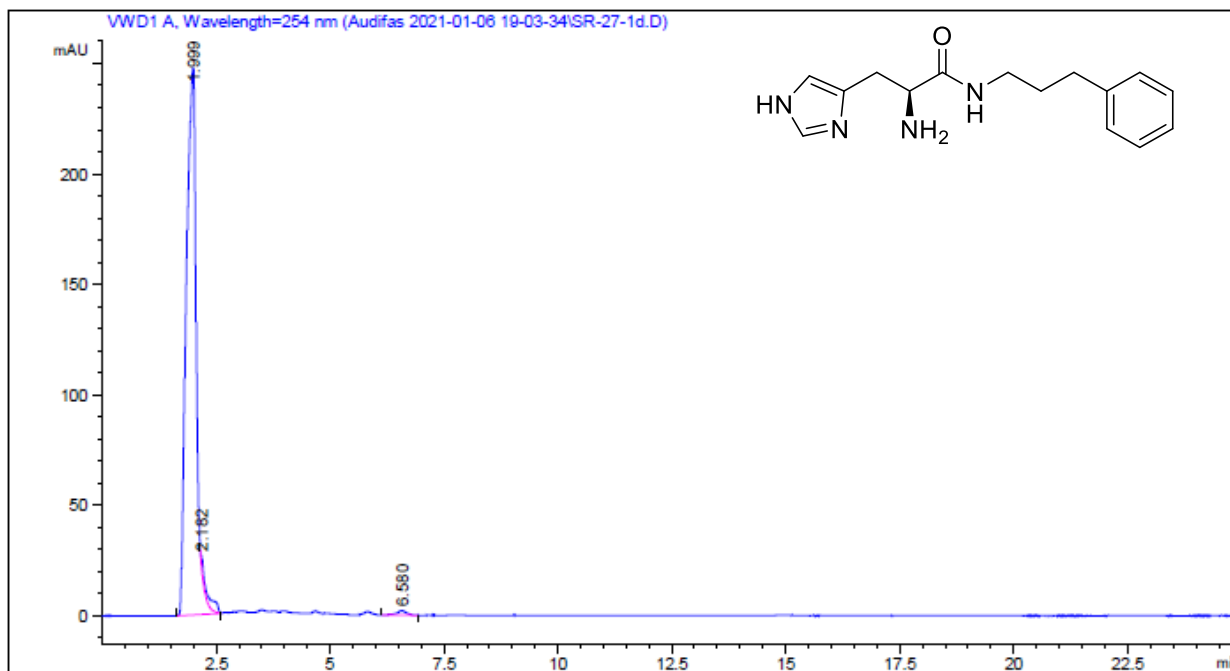
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : SR-27-1d



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.999	BV R	0.2161	3774.33862	247.89630	96.7906
2	2.182	VB E	0.2153	96.46211	5.44194	2.4737
3	6.580	VB	0.1799	28.68609	1.88636	0.7356

Totals : 3899.48682 255.22460

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(4-phenylbutyl)propanamide (8b)

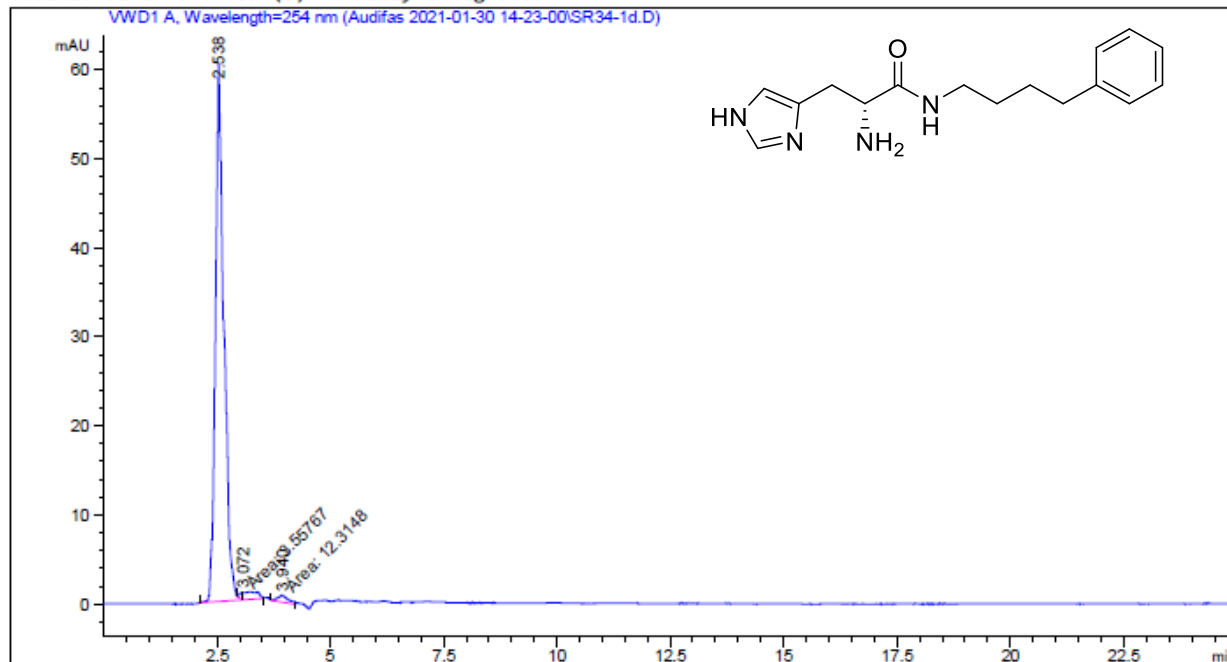
Sample Name: SR34-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 1
Acq. Instrument	: 1220 HPLC	Location	: 51
Injection Date	: 1/30/2021 2:24:48 PM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl			
Method	: C:\Chem32\1\Data\Audifas 2021-01-30 14-23-00\Wash_Shafikur.M (Sequence Method)		
Last changed	: 1/30/2021 2:23:03 PM by SYSTEM		
Method Info	: Methanol/Water 0.05 % TFA		

Sample Info : SR34-1d

Additional Info : Peak(s) manually integrated



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Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.538	MM R	0.2788	802.77618	60.50960	98.0611
2	3.072	MM T	0.0814	3.55767	7.28136e-1	0.4346
3	3.940	MM T	0.2576	12.31482	7.74216e-1	1.5043

(R)-N-(2-(1H-indol-3-yl)ethyl)-2-amino-3-(1H-imidazol-4-yl)propanamide (9e)

Sample Name: SR8-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 4
Acq. Instrument	: 1220 HPLC	Location	: 54
Injection Date	: 1/30/2021 3:47:27 PM	Inj	: 1
		Inj Volume	: 50.000 µl

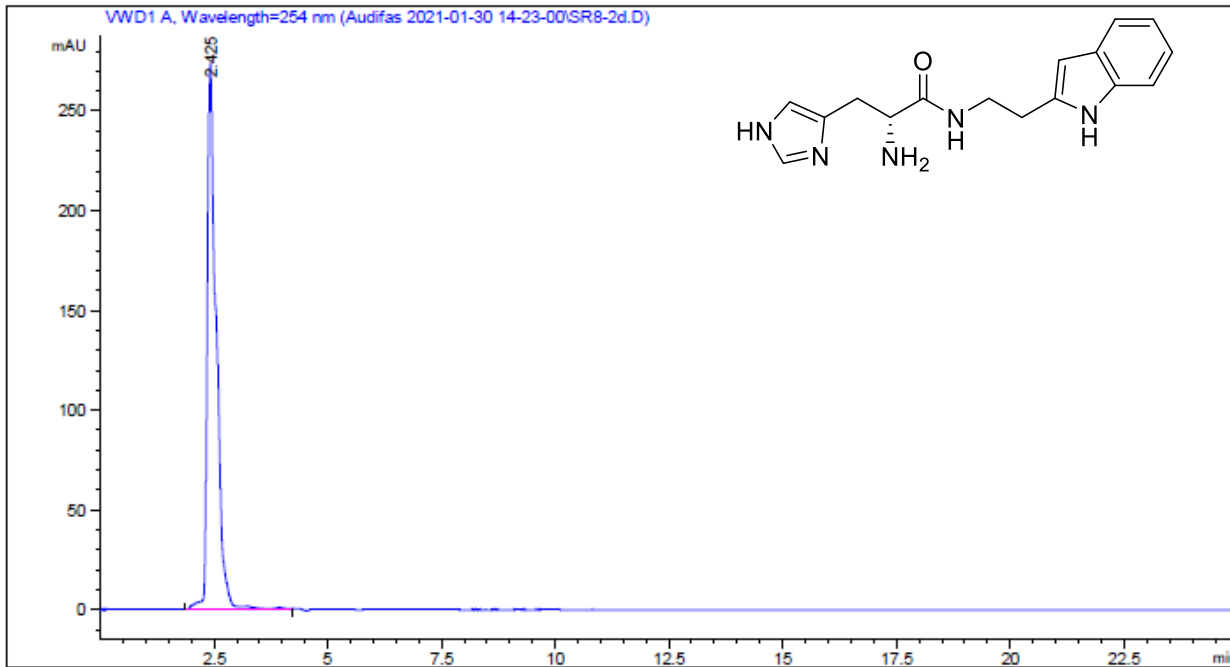
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

Method : C:\Chem32\1\Data\Audifas 2021-01-30 14-23-00\Wash_Shafikur.M (Sequence Method)

Last changed : 1/30/2021 2:23:03 PM by SYSTEM

Method Info : Methanol/Water 0.05 % TFA

Sample Info : SR8-2d



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.425	BV R	0.1908	3754.30176	274.04691	100.0000

Totals : 3754.30176 274.04691

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(naphthalen-2-yl)ethyl)propanamide (9f)

Sample Name: SR-18-2d

=====

Acq. Operator : SYSTEM	Seq. Line : 6
Acq. Instrument : 1220 HPLC	Location : 64
Injection Date : 1/6/2021 9:26:47 PM	Inj : 1
	Inj Volume : 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

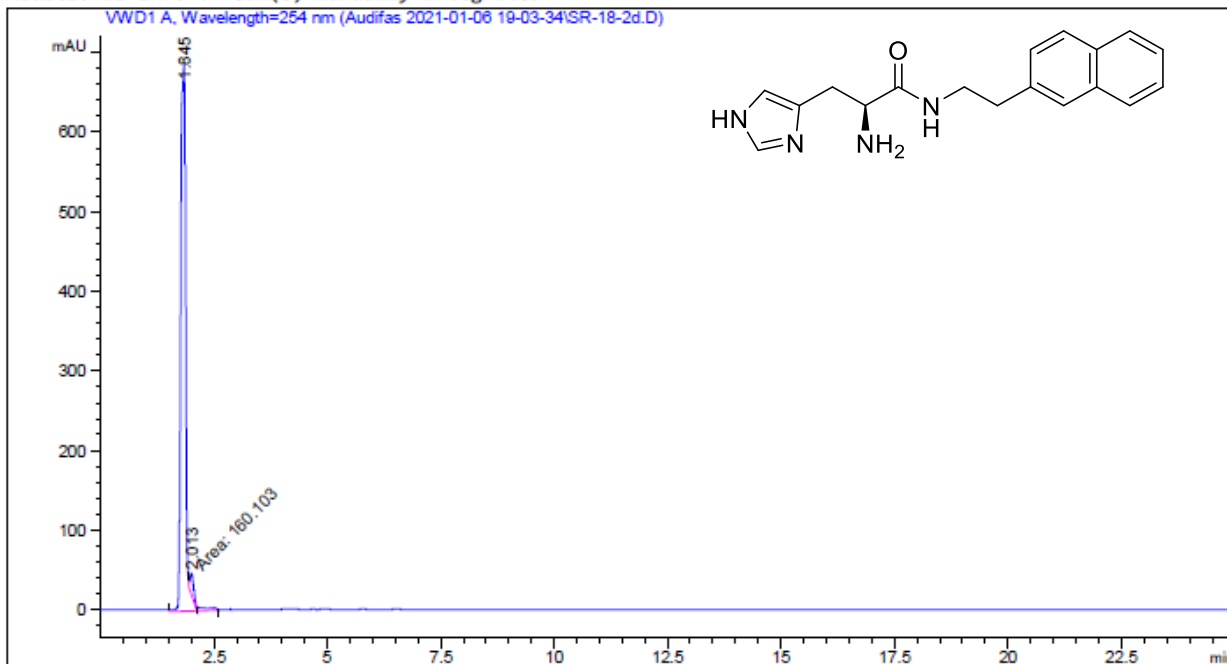
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : SR-18-2d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.845	MM R	0.1948	5318.42285	687.43878	97.0776
2	2.013	MM T	0.1050	160.10272	26.58394	2.9224

Totals : 5478.52557 714.02272

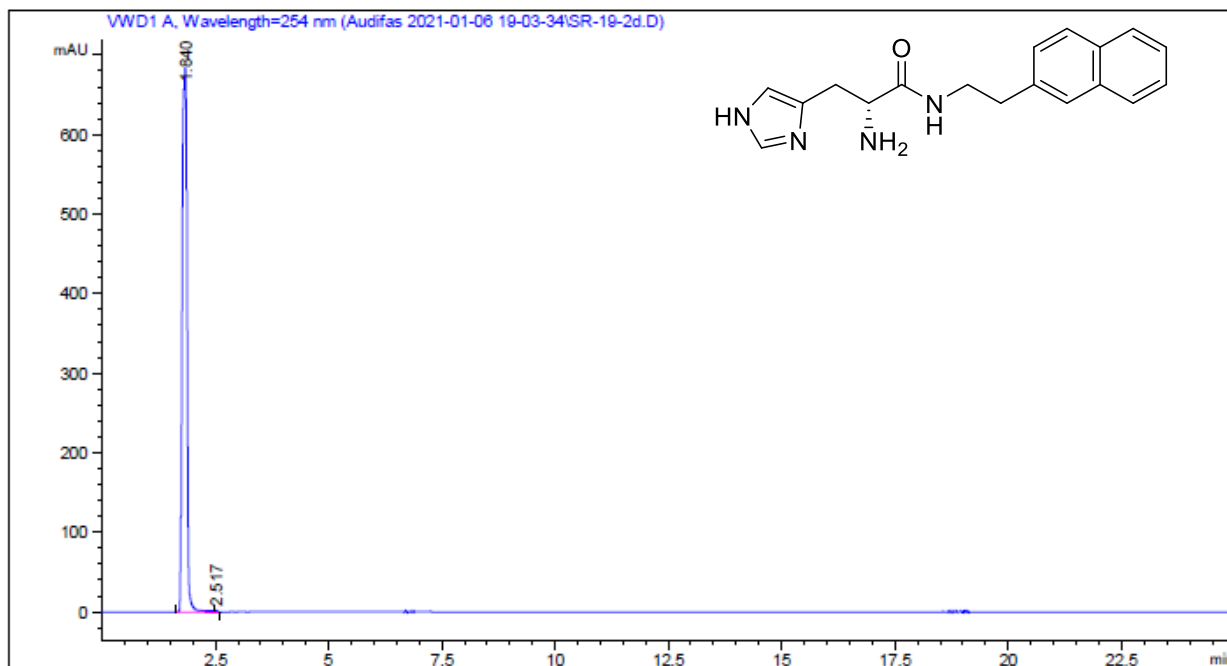
(R)-2-amino-3-(1H-imidazol-4-yl)-N-(2-(naphthalen-2-yl)ethyl)propanamide (9g)

Sample Name: SR-19-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 5
Acq. Instrument	: 1220 HPLC	Location	: 63
Injection Date	: 1/6/2021 8:59:17 PM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl			
Method	: C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)		
Last changed	: 1/6/2021 7:13:21 PM by SYSTEM		
Method Info	: Methanol/Water TFA 0.05 %		

Sample Info : SR-19-2d



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.840	BV R	0.1194	5018.99854	685.26447	99.8394
2	2.517	VB E	0.0575	8.07406	1.92153	0.1606

Totals : 5027.07260 687.18600

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-2-ylmethyl)propanamide (10a)

Sample Name: SR-46-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 4
Acq. Instrument	: 1220 HPLC	Location	: 62
Injection Date	: 1/6/2021 8:31:47 PM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

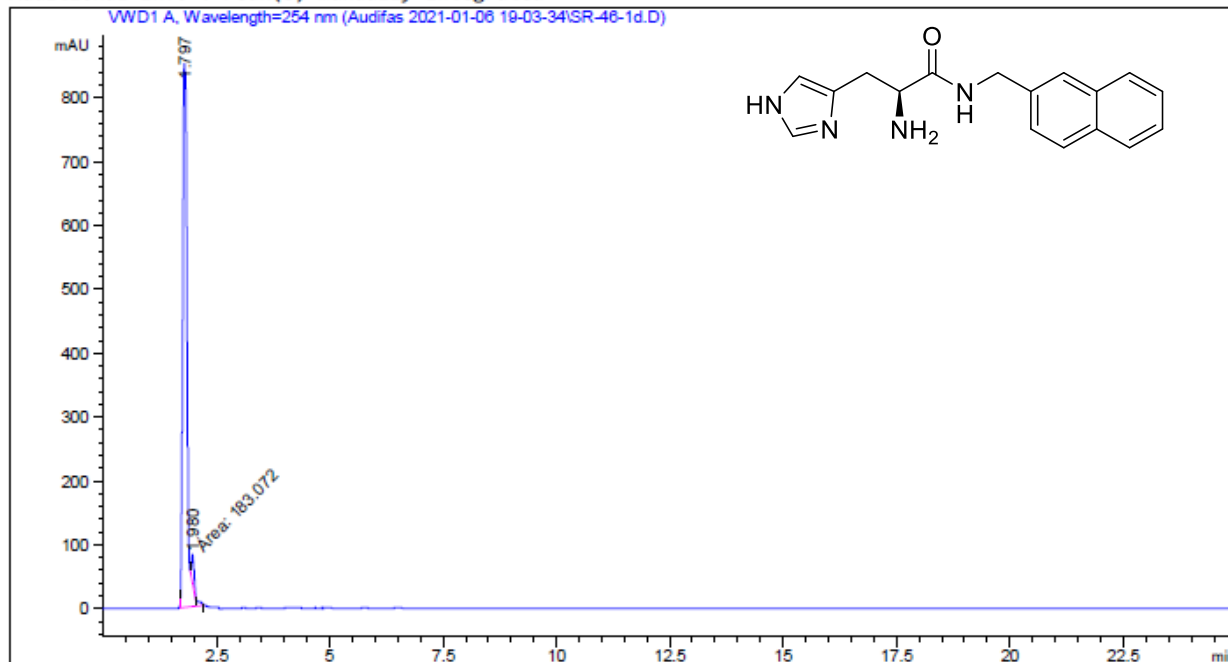
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : SR-46-1d

Additional Info : Peak(s) manually integrated



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.797	MM R	0.1145	6074.97803	852.00824	97.0746
2	1.980	MM T	0.0675	183.07237	45.17344	2.9254

Totals : 6258.05040 897.18168

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-2-ylmethyl)propanamide (10b)

Sample Name: SR-45-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 3
Acq. Instrument	: 1220 HPLC	Location	: 61
Injection Date	: 1/6/2021 8:04:18 PM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

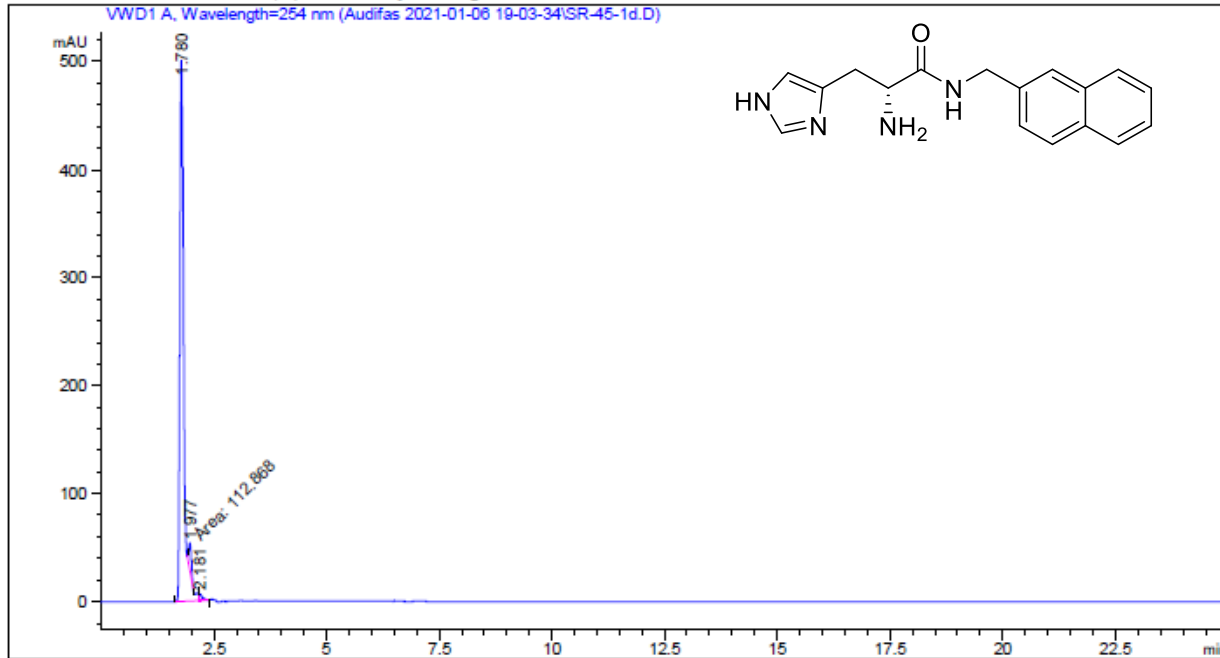
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water TFA 0.05 %

Sample Info : SR-45-1d

Additional Info : Peak(s) manually integrated



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Area Percent Report
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Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WVD1 A, Wavelength=254 nm

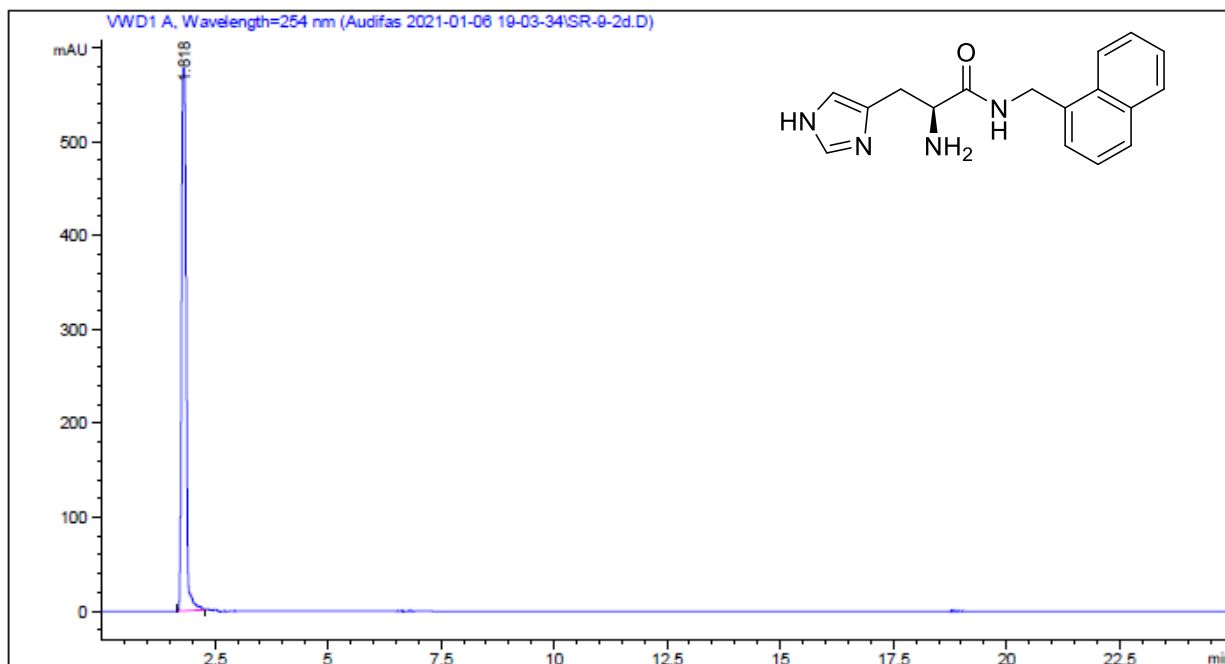
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.780	BV R	0.0867	3096.73462	500.99149	95.4401
2	1.977	MM T	0.0721	112.86839	26.09600	3.4786
3	2.181	VB E	0.0706	35.08551	6.10260	1.0813

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-1-ylmethyl)propanamide (10c)

Sample Name: SR-9-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 7
Acq. Instrument	: 1220 HPLC	Location	: 65
Injection Date	: 1/6/2021 9:54:18 PM	Inj	: 1
		Inj Volume	: 50.000 µl
		Actual Inj Volume	: 30.000 µl
Different Inj Volume from Sample Entry!			
Method	: C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)		
Last changed	: 1/6/2021 7:13:21 PM by SYSTEM		
Method Info	: Methanol/Water TFA 0.05 %		
Sample Info	: SR-9-2d		



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.818	BV R	0.1146	4119.67236	578.71716	100.0000

Totals : 4119.67236 578.71716

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(naphthalen-1-ylmethyl)propanamide (10d)

Sample Name: SR-10-2d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 10
Acq. Instrument	: 1220 HPLC	Location	: 66
Injection Date	: 1/6/2021 11:17:05 PM	Inj	: 1
		Inj Volume	: 50.000 µl

Different Inj Volume from Sample Entry! Actual Inj Volume : 30.000 µl

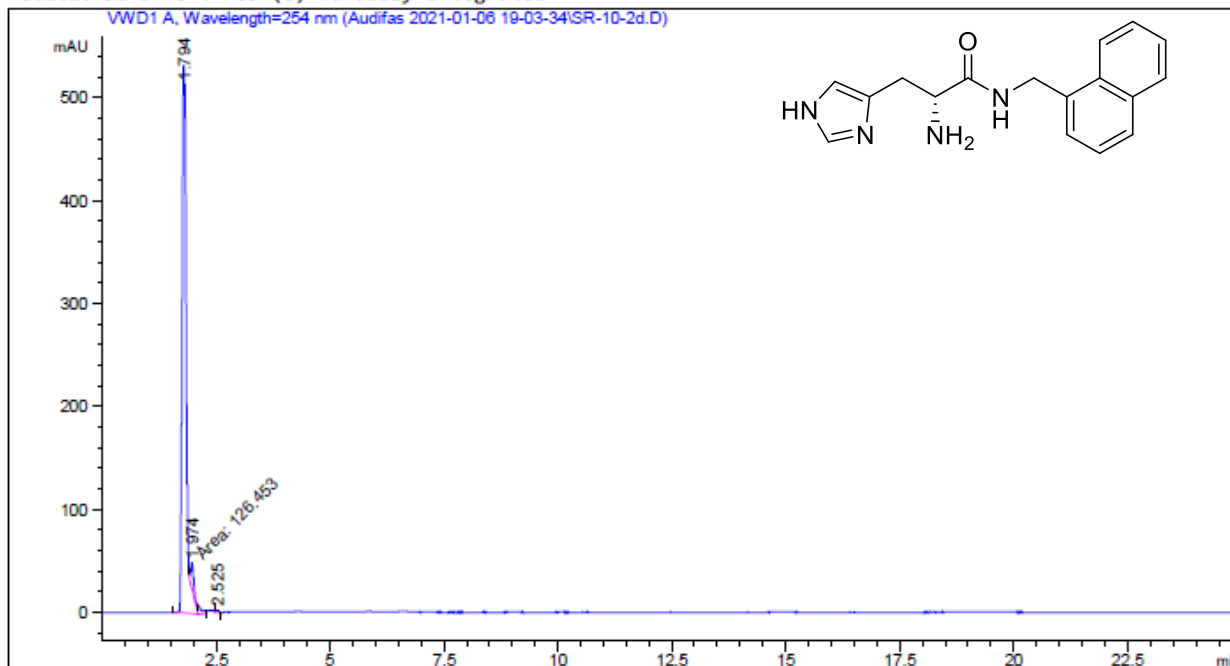
Method : C:\Chem32\1\Data\Audifas 2021-01-06 19-03-34\Wash_Shafikur.M (Sequence Method)

Last changed : 1/6/2021 7:13:21 PM by SYSTEM

Method Info : Methanol/Water ammonia 0.05%

Sample Info : SR-10-2d

Additional Info : Peak(s) manually integrated



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Area Percent Report
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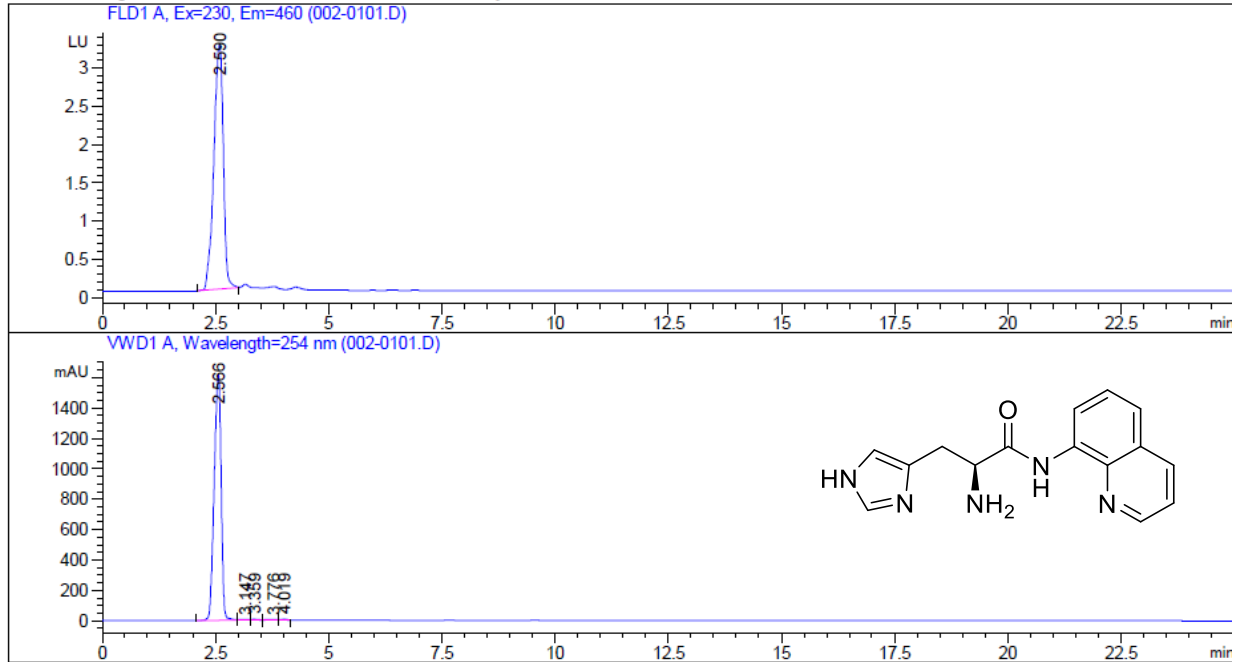
Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: WVD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	1.794	MM R	0.1115	3561.12109	532.48346	96.2611
2	1.974	MM T	0.0849	126.45335	25.51042	3.4182
3	2.525	VB	0.0615	11.86573	2.30843	0.3207

(S)-2-amino-3-(1H-imidazol-4-yl)-N-(quinolin-8-yl)propanamide (11a)

Acq. Operator : SYSTEM=====
Acq. Instrument : HPLC Location : Vial 2
Injection Date : 2/22/2021 12:28:32 PM Inj : 1
Inj Volume : 20.000 µl
Sequence File : C:\Chem32\1\DATA\AO\KK 2021-02-22 12-27-23\KK.S
Method : C:\CHEM32\1\DATA\AO\KK 2021-02-22 12-27-23\CQ.M (Sequence Method)
Last changed : 2/22/2021 12:27:23 PM by SYSTEM



=====
Area Percent Report
=====

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 2: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.566	BV	0.1634	1.72670e4	1618.76880	99.0040
2	3.147	VV	0.1739	57.22061	4.48363	0.3281
3	3.359	VB	0.1301	38.78291	4.30338	0.2224
4	3.776	BV	0.2168	30.98909	2.18032	0.1777
5	4.019	VV	0.1189	46.72070	5.86617	0.2679

Totals : 1.74407e4 1635.60230

(R)-2-amino-3-(1H-imidazol-4-yl)-N-(quinolin-8-yl)propanamide (11b)

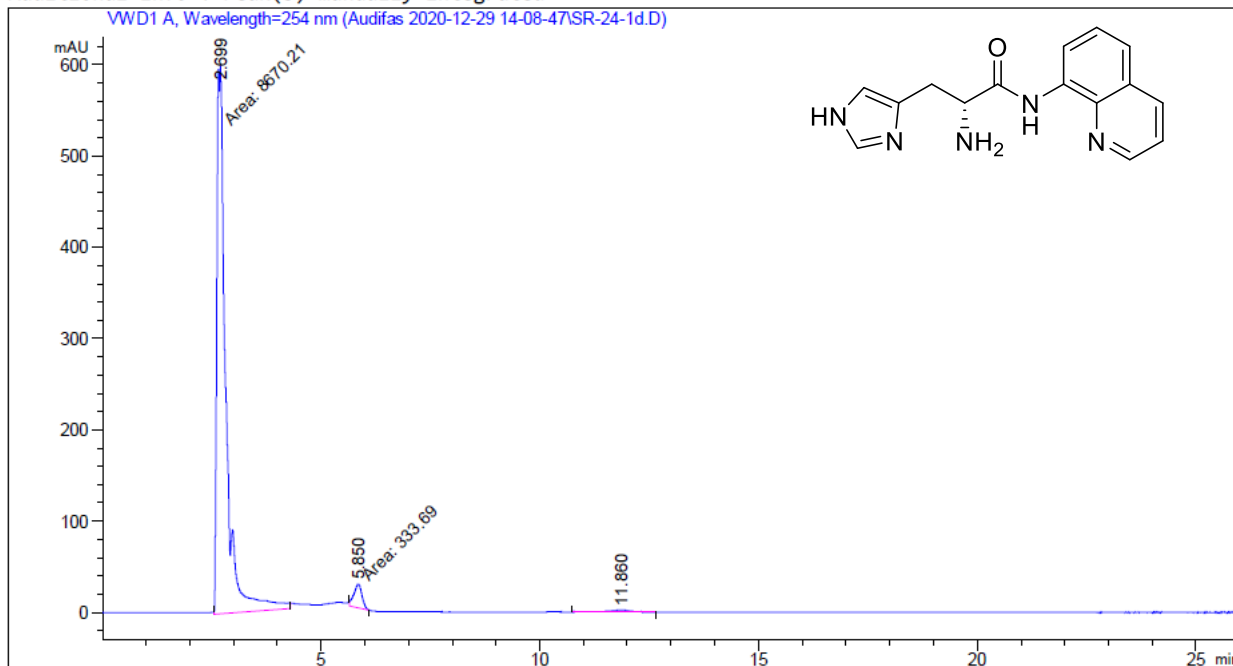
Sample Name: SR-24-1d

=====

Acq. Operator	: SYSTEM	Seq. Line	: 17
Acq. Instrument	: 1220 HPLC	Location	: 55
Injection Date	: 12/29/2020 9:52:27 PM	Inj	: 1
		Inj Volume	: 50.000 µl
Different Inj Volume from Sample Entry! Actual Inj Volume : 25.000 µl			
Method	: C:\Chem32\1\Data\Audifas 2020-12-29 14-08-47\Wash_Shafikur.M (Sequence Method)		
Last changed	: 12/29/2020 2:08:51 PM by SYSTEM		
Method Info	: Wash_Shafikur Water 0.05 %TFA / Methanol		

Sample Info : SR-24-1d

Additional Info : Peak(s) manually integrated



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Area Percent Report
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Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	2.699	MM T	0.2403	8670.20898	601.43866	95.4375
2	5.850	MM T	0.2157	333.68973	25.78662	3.6731
3	11.860	VB R	0.4245	80.79691	2.22593	0.8894